153

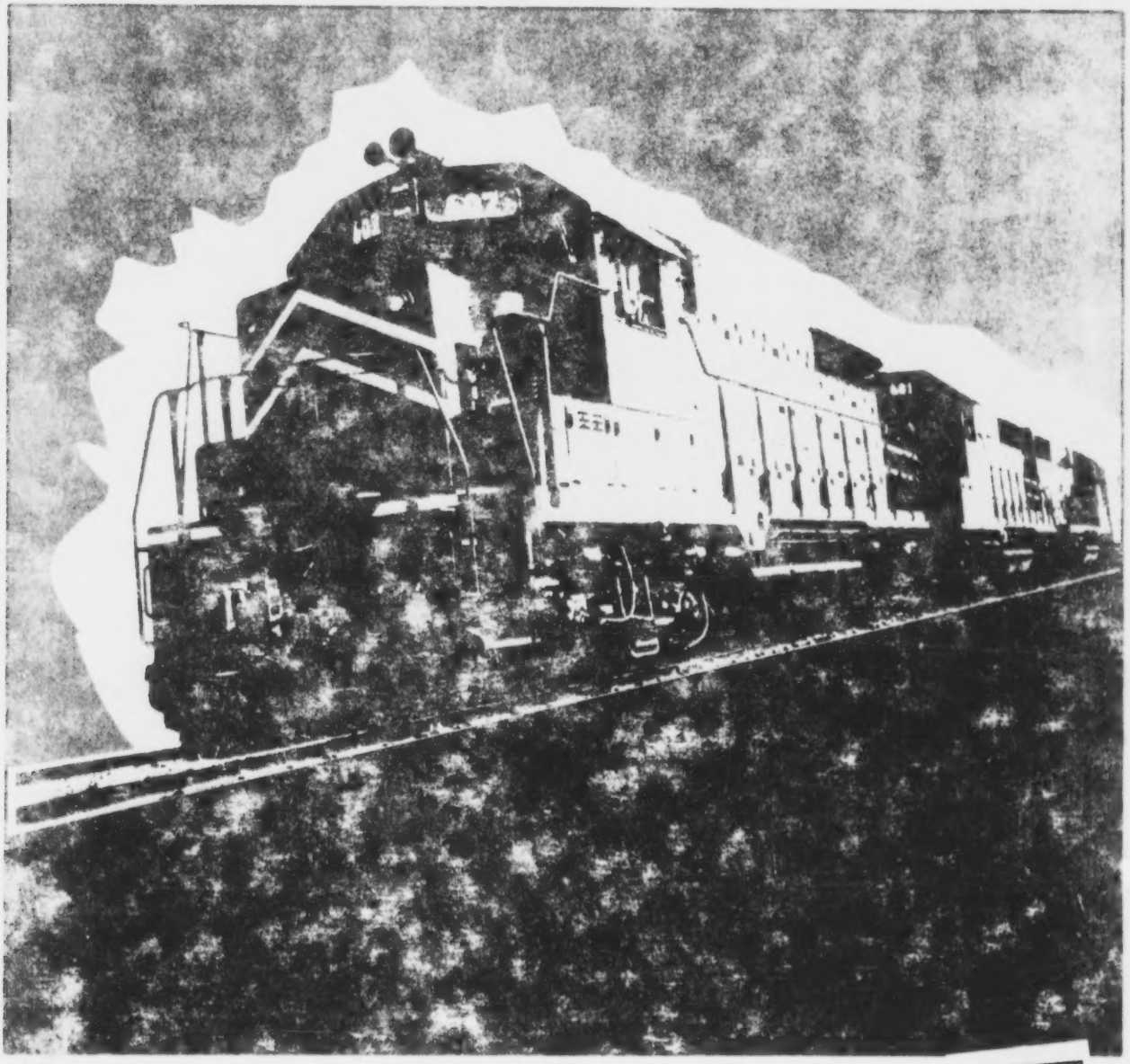
U.S. Department of Transportation
Federal Railroad Administration
Office of Safety

Accident/Incident Bulletin

No. 153

Calendar Year 1984

June 1985



TD 3.103:

READEX FICHE

NOTICE

This document is prepared from reports submitted by the railroads to the Federal Railroad Administration in accordance with Regulation 49 C.F.R 225. These data have been edited and summarized by FRA personnel. The United States Government assumes no liability for its contents or its use.

Federal Railroad Administration
Office of Safety, RRS-22
400 Seventh Street, S.W.
Washington, D.C. 20590

TABLE OF CONTENTS

Section		Page
	INTRODUCTION	1
1.	HISTORICAL TRENDS, LAST SIX YEARS	3
	Operations	3
	Train Accidents	5
	Train Accidents, Train Incident and Non-Train Incidents	12
	Casualties	14
2.	OVERVIEW OF 1984 DATA	17
	Speed Factor in Accident	17
	Accidents and Track Type	19
	Cause by Type of Accident	20
	Injuries and Fatalities by Type of Person	21
3.	ACCIDENTS: DETAIL OF 1984 OCCURRENCES	29
4.	ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS	37
5.	ACCIDENTS AND CASUALTIES BY STATE	43
6.	SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD	53
7.	CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS, AND OTHERS	69
	Summary of Casualties	69
	Employee Casualties	78
	Casualties in Train Accidents	87
	Casualties in Train Incidents	94
	Casualties in Non-Train Incidents	104
	APPENDIX A. Reportability Requirements and Definitions	
	APPENDIX B. Reporting Forms	

LIST OF TABLES

Table		Page
	1. HISTORICAL TRENDS, LAST SIX YEARS	
1.	Railroad Operational Profile	3
2.	Revenue Ton-Miles	3
3.	Train Accident Causes	5
4.	Train Accidents and Reportable Damages by Train-Miles	10
5.	Train Accidents and Reportable Damages by Type	10
6.	Train Accidents and Reportable Damages by Cause	11
7.	Total Accidents/Incidents	13
8.	Casualties in Accidents/Incidents	14
9.	Casualties by Type of Person	15
	2. OVERVIEW OF 1984 DATA	
10.	Train Accidents and Reportable Damages by Speed	18
11.	Train Accidents and Reportable Damages by Track Class	19
12.	Reportable Damages in Train Accidents by Type and Cause	20
13.	Casualties by Type of Person	22
14.	Total Fatalities by Type of Person	23
15.	Total Nonfatal Casualties by Type of Person	24
16.	Total Accidents/Incidents by Occurrence	25
17.	Train Accidents by Month	27
18.	Train Accidents by Type and Month	27
	3. ACCIDENTS: DETAIL OF 1984 OCCURRENCES	
19.	Train Accidents and Damages by Principal Causes and Subcauses	29
20.	Train Accidents Resulting from Human Factors by Specific Causes	30

LIST OF TABLES (continued)

Table		Page
21.	Train Accidents Resulting from Mechanical and Electrical Failures by Specific Cause	32
22.	Train Accidents Resulting from Defects in Track, Roadbed and Structures	34
23.	Train Accidents Resulting from Miscellaneous Causes by Specific Cause	36
24.	Damages to Rail Equipment in Train Accidents by Consist Type	36
	4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS	
25.	Train Accidents Involving Hazardous Materials	37
26.	Train Accidents Involving Consists Transporting Hazardous Materials	37
27.	Train Accidents Involving Hazardous Materials by Cause	39
28.	Train Accidents Involving Hazardous Materials by State	40
29.	Train Accidents Involving Hazardous Materials by Railroad	41
	5. ACCIDENTS AND CASUALTIES BY STATE	
30.	Train Accidents by State and Type	43
31.	Train Accidents by State and Cause	44
32.	Train Accidents by State and Month	46
33.	Casualties by State and Class of Accident/Incident	47
34.	Train Accident and Train Incident Fatalities to Trespassers and Non-trespassers by State	48
35.	Train Accident and Train Incident Injuries to Trespassers and Non-trespassers by State	50
	6. SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD	
36.	Summary of Train-Miles Operated	53
37.	Involvement in Train Accidents by Railroad, Type and Cause	54
38.	Fatalities by Railroad and Type of Accident/Incident	56

LIST OF TABLES (continued)

Table		Page
39.	Nonfatal Casualties by Railroad and Type of Accident/ Incident	58
40.	Injuries to Employees on Duty by Type of Injury and Railroad	60
41.	Casualties in Train Accidents by Railroad	62
42.	Casualties to Employees on Duty by Job Category and Railroad	63
43.	Casualty Rates for Employees on Duty by Railroad	65
44.	Summary of Nonfatal Injuries to Employees on Duty by Railroad	66
45.	Summary of Employee on Duty Casualties by Reportability Criteria and Railroad	67
	7. CASUALTIES: EMPLOYEE, TRESPASSERS AND NON-TRESPASSERS AND OTHERS	
	Summary of Casualties	
46.	Fatalities by Type of Accident/Incident, Type of Railroad, and Type of Person	70
47.	Injuries by Type of Accident/Incident, Type of Railroad, and Type of Person	71
48.	Illnesses by Type of Accident/Incident, Type of Railroad, and Type of Person	73
49.	Nature of Injuries by Type of Accident/Incident	74
50.	Nature of Injuries by Type of Person	76
	Employee Casualties	
51.	Employee on Duty Casualties by Type of Casualty	79
52.	Employee on Duty Casualties by Job Category	80
53.	Employee on Duty Fatalities by Job Category	82
54.	Employee on Duty Injuries by Job Category	83
55.	Lost Workdays Resulting from Nonfatal Injuries to Employees on Duty	84

LIST OF TABLES (continued)

Table		Page
56.	Employee on Duty Illnesses by Job Category	85
57.	Summary of Nonfatal Employee on Duty Injuries Due to Assault	86
	Casualties in Train Accidents	
58.	Fatalities Resulting from Train Accidents Caused by Miscellaneous Factors	87
59.	Nonfatal Casualties Resulting from Train Accidents Caused by Miscellaneous Factors	87
60.	Fatalities Resulting from Train Accidents Caused by Human Factors	88
61.	Nonfatal Casualties Resulting from Train Accidents Caused by Human Factors	89
62.	Fatalities Resulting from Train Accidents Caused by Mechanical/Electrical Failures	90
63.	Nonfatal Casualties Resulting from Train Accidents Caused by Mechanical/Electrical Failures	91
64.	Fatalities Resulting from Train Accidents Caused by Defects in Track, Roadbed, and Structures	92
65.	Nonfatal Casualties Resulting from Train Accidents Caused by Defects in Track, Roadbed, and Structures	93
	Casualties in Train Incidents	
66.	Fatalities in Train Incidents by Specific Occurrence and Type of Person	94
67.	Injuries in Train Incidents by Specific Occurrence and Type of Person	97
68.	Illness in Train Incidents by Specific Occurrence and Type of Person	103
	Casualties in Non-Train Incidents	
69.	Fatalities in Non-Train Incidents by Specific Occurrence and Type of Person	104
70.	Injuries in Non-Train Incidents by Specific Occurrence and Type of Person	106
71.	Illnesses in Non-Train Incidents by Specific Occurrence and Type of Person	113

LIST OF FIGURES

Figure		Page
1.	Railroad Train Miles	3
2.	Revenue Ton-Miles	4
3A.	Accident Causes - Adjusted	6
3B.	Accident Causes - Unadjusted	6
4A.	Derailment Causes - Adjusted	7
4B.	Derailment Causes - Unadjusted	7
5A.	Collision Causes - Adjusted	8
5B.	Collision Causes - Unadjusted	8
6A.	Causes of Accidents Other Than Collisions and Derailments - Adjusted	9
6B.	Causes of Accidents Other Than Collisions and Derailments - Unadjusted	9
7.	Total Train Accidents and Train Incidents per Billion Revenue Ton-Miles	12
8.	Non-Train Incidents per 200,000 Man-Hours	12
9.	Total Accidents/Incidents	13
10.	Casualties in Train Accidents	15
11.	Casualties in Train Incidents	15
12.	Casualties in Non-Train Incidents	16
13.	Fatalities in Accidents/Incidents	16
14.	Causes of Accidents by Type of Track and Consist Speed	17
15.	Accident Damages by Speed and Cause	18
16.	Accident Damages by Track Class and Cause	19
17.	Accident Causes by Track Class	20
18.	Accident Causes by Accident Type	21

LIST OF FIGURES (continued)

Figure		Page
19A.	Fatalities by Type of Person	21
19B.	Injuries by Type of Person	21
20.	Fatalities at Rail-Highway Crossings by Type of Person	26
21.	Fatalities Not at Rail-Highway Crossings	26
22.	Total Number of Hazardous Material Cars Damaged	38
23.	Total Number of Cars Releasing Hazardous Materials by Year	38
23A.	Total Number of Accidents in Which There was a Release of Hazardous Materials	38
24.	All Hazardous Material Releases - Materials Transportation Bureau	42
25.	Train Accidents by State	45
26.	Fatalities by State	49
27.	Injuries by State	51
28.	Fatalities: Rail-Highway Crossings and Other	69
29.	Injuries: Rail-Highway Crossings and Other	69
30.	Injuries to Employees on Duty	78
31A.	Fatalities by Employee Job Category	78
31B.	Injuries by Employee Job Category	78

Table Cross Reference

Old Table Number	New Table Number
H1	1
H2	7
H3	3
H4	8
H6	4
H7	5
H8	6
R1	36
R10	43
R12	40
R14	44
R15	57
R3	37
R4	29
R5	41
R7	38
R8	39
R9	42
S10	25
S10A	27
S11	14
S12	15
S12A	16
S13	46
S14	47
S15	48
S16	34
S17	35
S18	33
S2	17
S20	53
S21	54
S8	23

Table Cross Reference

Old Table Number	New Table Number
S21A	55
S22	56
S23	49
S24	50
S25	52
S27	51
S28	60
S29	61
S3A	30
S3B	31
S31	63
S32	64
S33	65
S34	58
S35	59
S36	66
S37	67
S38	68
S39A	69
S39B	70
S39C	71
S4	32
S40A	18
S40B	12
S41	19
S43	24
S44	10
S45	11
S5	20
S50	13
S6	21
S7	22
S9	28

INTRODUCTION

Railroads are required to file monthly accident/incident reports with the Federal Railroad Administration's (FRA) Office of Safety in accordance with 49 CFR 225.

Bulletin 153 summarizes reportable accidents/incidents that occurred in the United States during 1984.

The reporting threshold that determines which accidents must be reported is adjusted to reflect the effect of inflation on damage costs. Between 1957 and 1974, any train accident exceeding $750 in damages to railroad on-track equipment, signals, track or track structures, and roadbed had to be reported. Since the reporting threshold remained the same during this period, the rise in damage costs due to inflation contributed to an increasing number of reported accidents. In 1975, the FRA implemented new rules for reporting railroad accidents. The reporting threshold was raised to $1,750; and the threshold was adjusted every 2 years to reflect inflationary changes. The reporting threshold in 1984 was $4,500.

While this revision improved the comparability of the data, comparisons are valid only for those years when the threshold was adjusted. Generally, the number of reported accidents is higher in a year following an adjustment. Biennial adjustments not only make year-to-year statistical comparisons difficult, but also impose an unnecessary reporting burden on the railroads. To get a clearer picture of annual trends, it is necessary to adjust the second year of a threshold. This was done by limiting the count of accidents in 1980 to those resulting in reportable damage of more than $3,200; in 1982 to those over $4,100; and in 1984 to those over $4,700. For all other years, the actual number of accidents is reported.

To better assess the impact of increases or decreases in accidents/incidents, it is useful to know the number of hours worked (man-hours) and the revenue ton-miles. Therefore, the 1984 Accident/Incident Bulletin gives data for train accidents and train incidents by billions of revenue ton-miles, and data for non-train incidents by 200,000 man-hours.

The tables appearing in the bulletin have retained their basic format since 1975. In 1983 the tables were renumbered so that the sequence that they appear in the bulletin and the table number would be in agreement. A cross reference table appears on page viii that provides a bridge between the previous table numbers and those appearing in this publication.

The heading "Nonfatal Casualties" indicates that both injuries and occupational illnesses are included. In all other cases, nonfatal illnesses are shown separately.

Information about casualties and accidents at rail-highway crossings are shown in this Bulletin. However, detailed information is available in the Rail-Highway Crossing Accident/Incident and Inventory Bulletin published annually by the FRA Office of Safety.

1. HISTORICAL TRENDS, LAST 6 YEARS

OPERATIONS

TABLE 1. RAILROAD OPERATIONAL PROFILE

Year	Man-Hours (000,000)	Motor Train-Miles (000)	Yard Switching Miles (000)	Locomotive Miles (000)	Total Train-Miles (000)
1979	1,077	32,274	207,849	523,306	763,429
1980	1,011	32,784	182,340	502,538	717,662
1981	949	30,301	164,754	481,161	676,216
1982	801	27,359	133,424	412,586	573,369
1983	730	27,787	122,234	408,170	558,191
1984	743	31,798	126,465	434,336	592,599

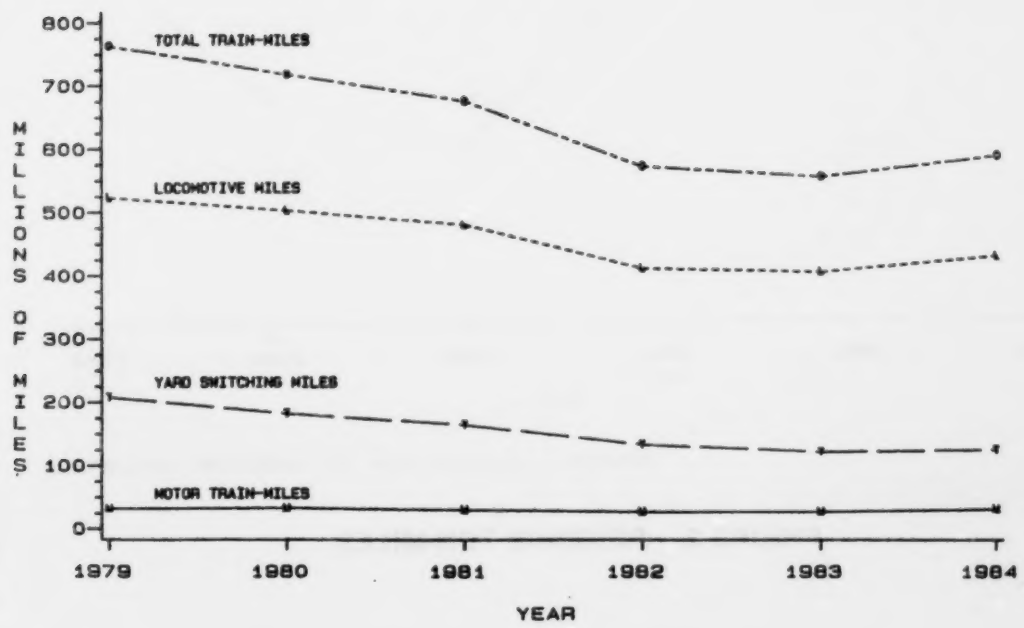
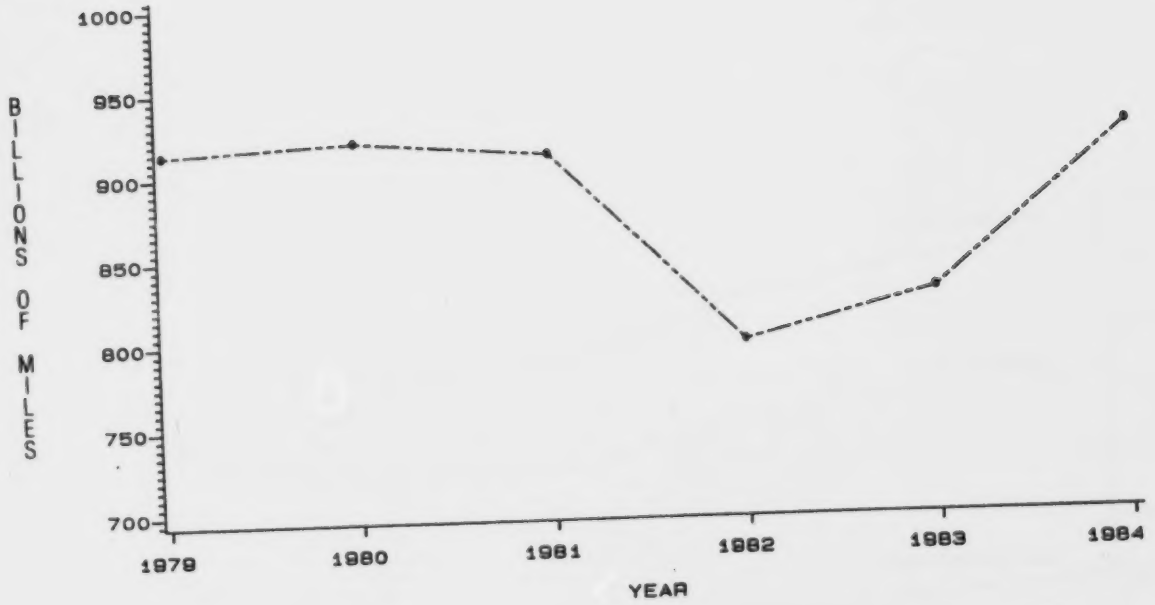


FIGURE 1. RAILROAD TRAIN-MILES

TABLE 2. REVENUE TON-MILES (BILLIONS)

1979	913.7
1980	918.6
1981	910.2
1982	797.8
1983	826.2
1984	921.8



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES

TABLE 3. TRAIN ACCIDENT CAUSES

Year	Human Factors	Mechanical & Electrical Failures	Track Defects	Other	Total Accidents
1979	2,660	1,815	4,050	1,215	9,740
1980	2,323	1,458	3,492	1,178	8,451
1981	1,597	1,016	2,273	895	5,781
1982	1,284	796	1,769	740	4,589
1983	1,101	638	1,581	586	3,906
1984	1,100	661	1,481	658	3,900

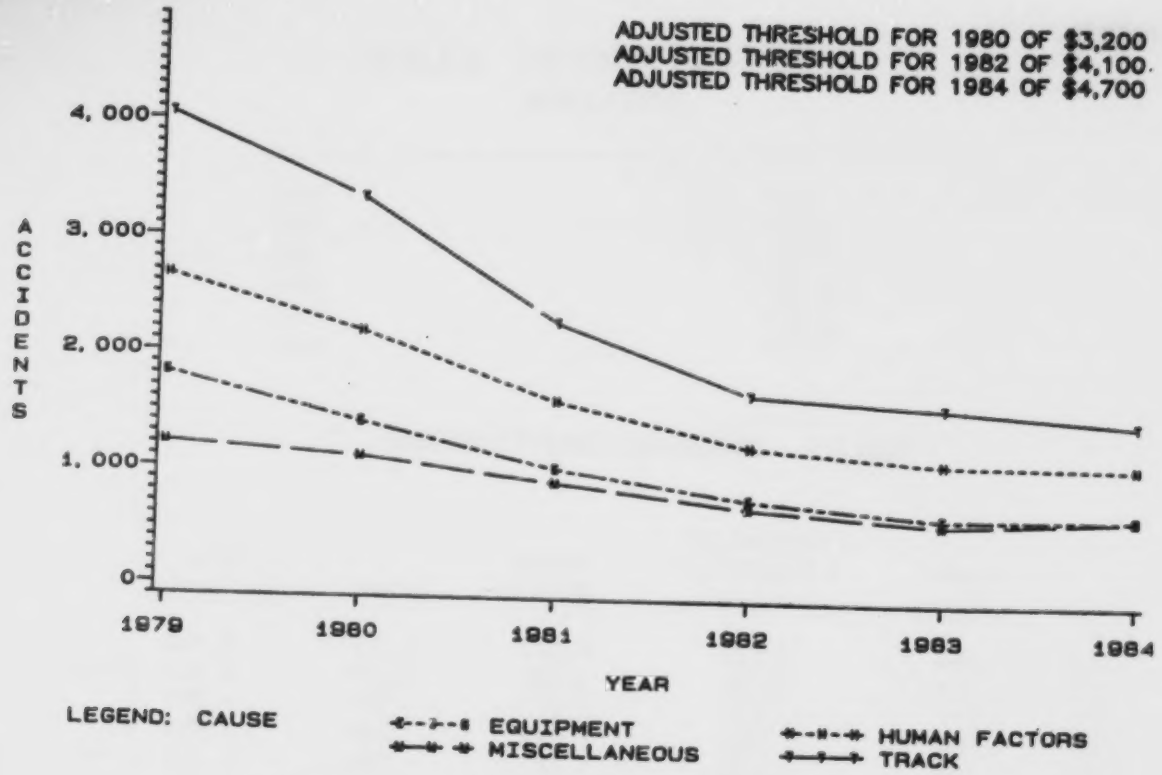


FIGURE 3A. ACCIDENT CAUSES - ADJUSTED

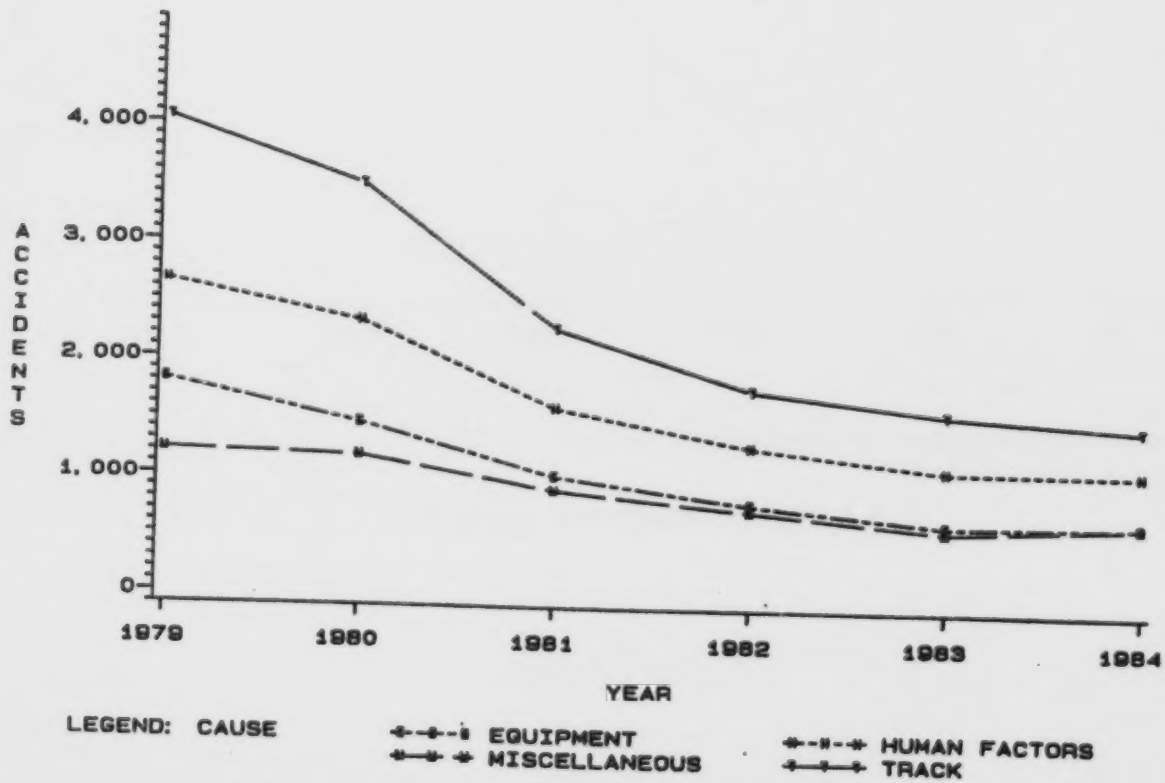


FIGURE 3B. ACCIDENT CAUSES - UNADJUSTED

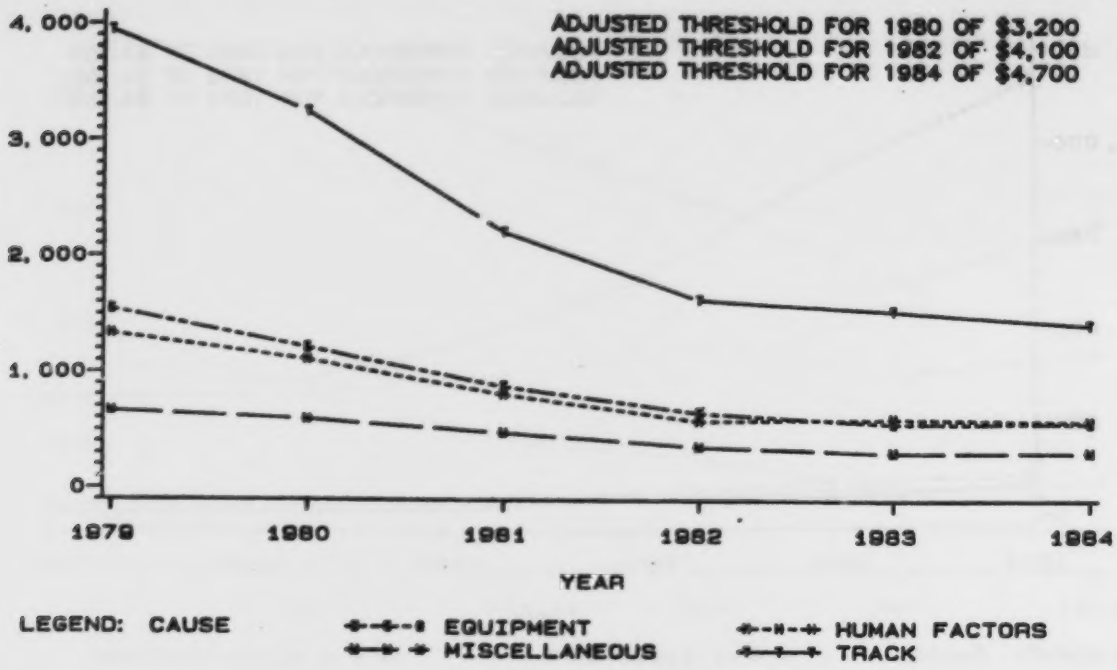


FIGURE 4A. DERAILMENT CAUSES - ADJUSTED

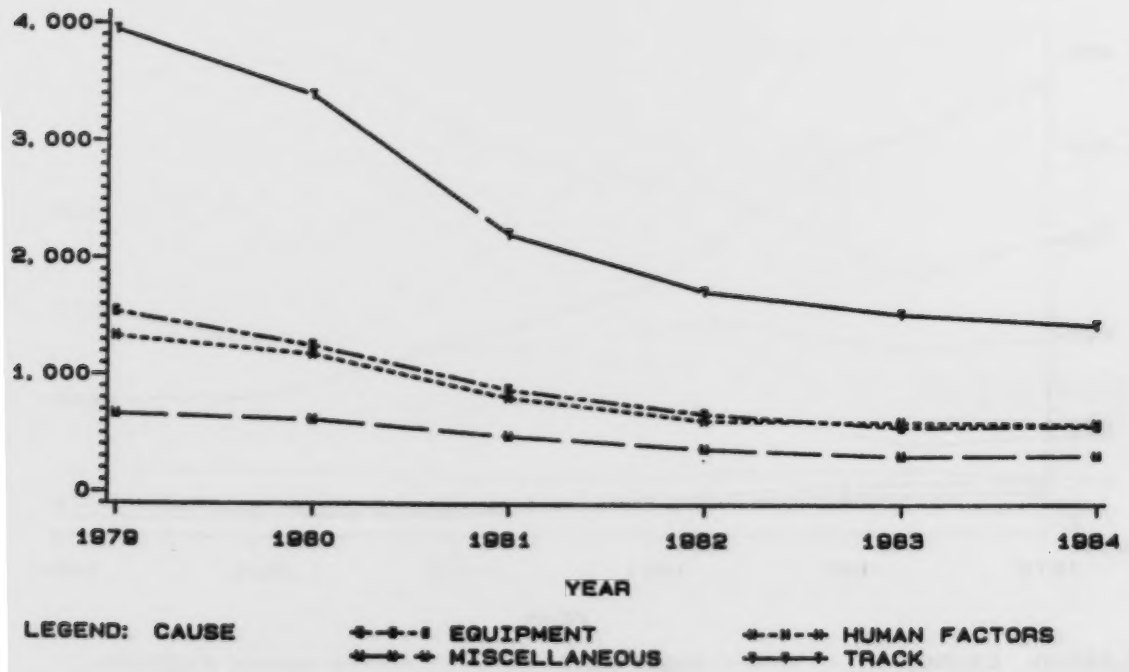


FIGURE 4B. DERAILMENT CAUSES - UNADJUSTED

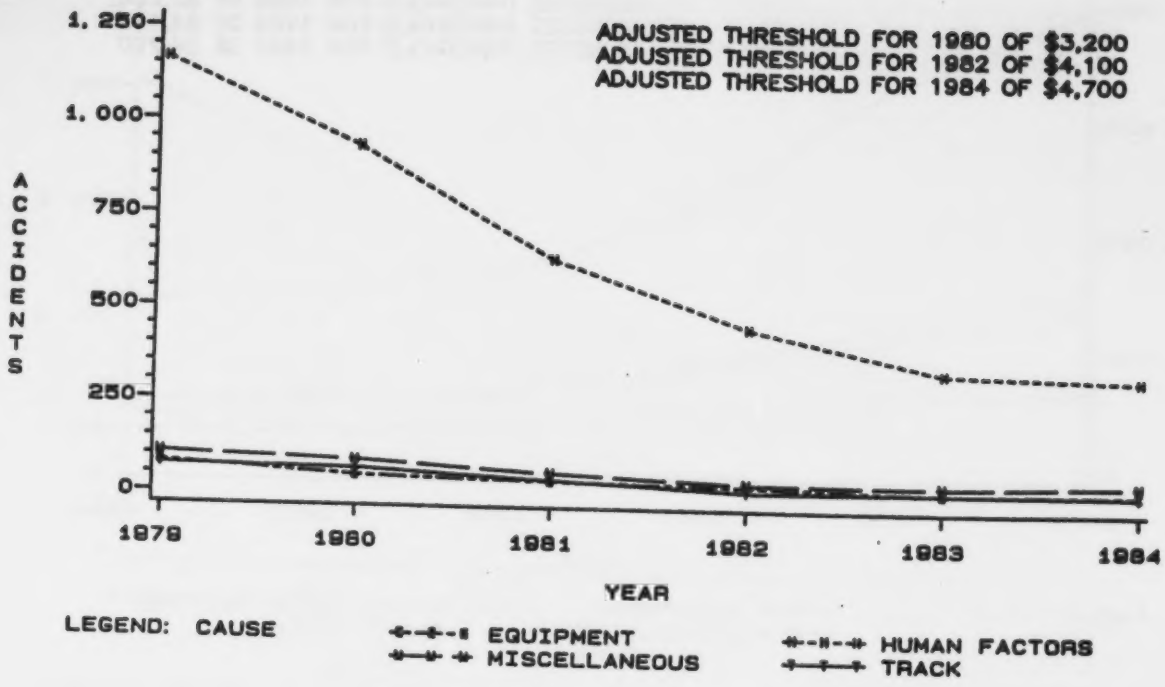


FIGURE 5A. COLLISION CAUSES - ADJUSTED

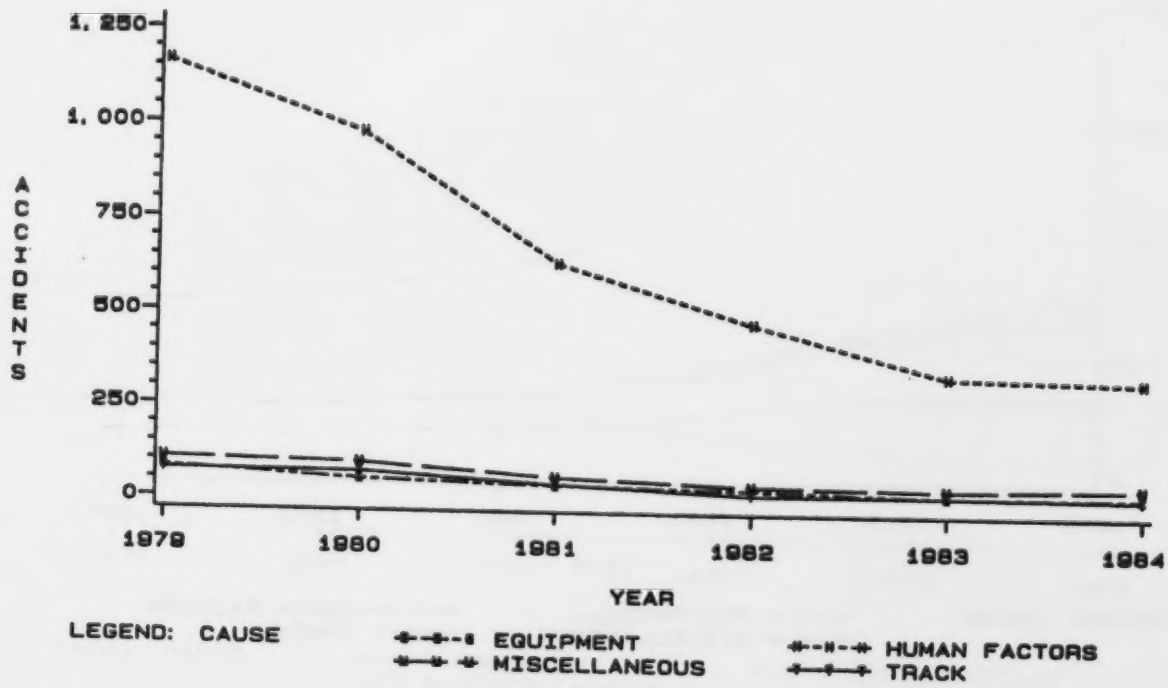


FIGURE 5B. COLLISION CAUSES - UNADJUSTED

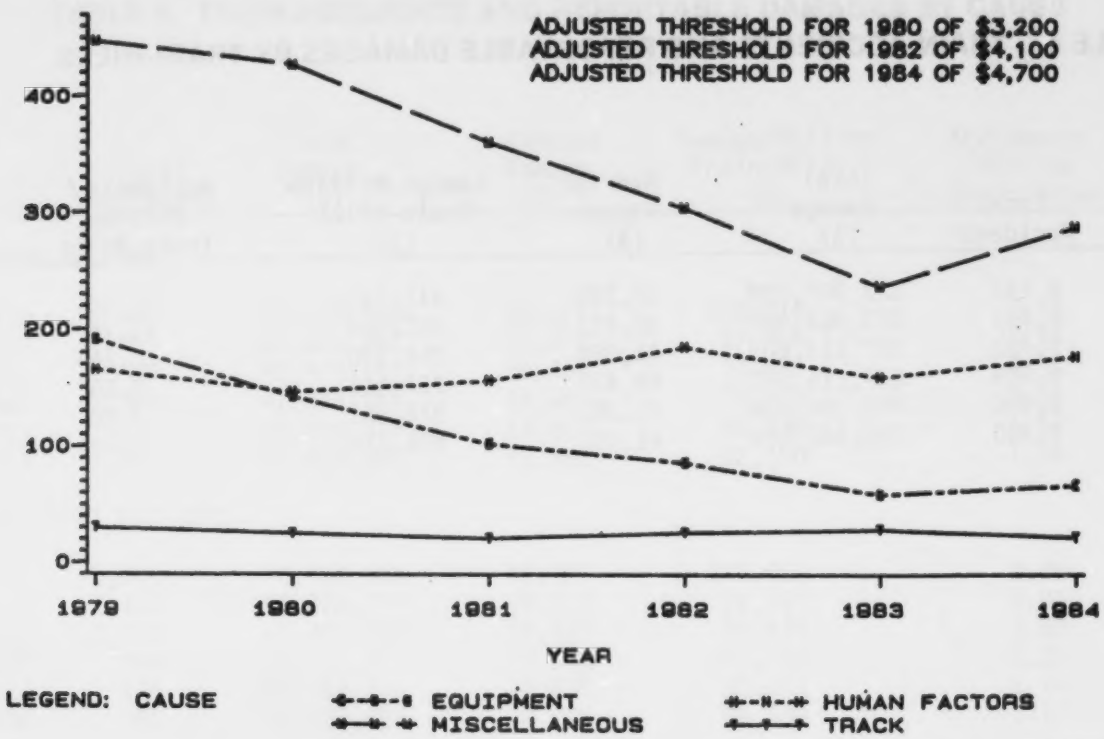


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - ADJUSTED

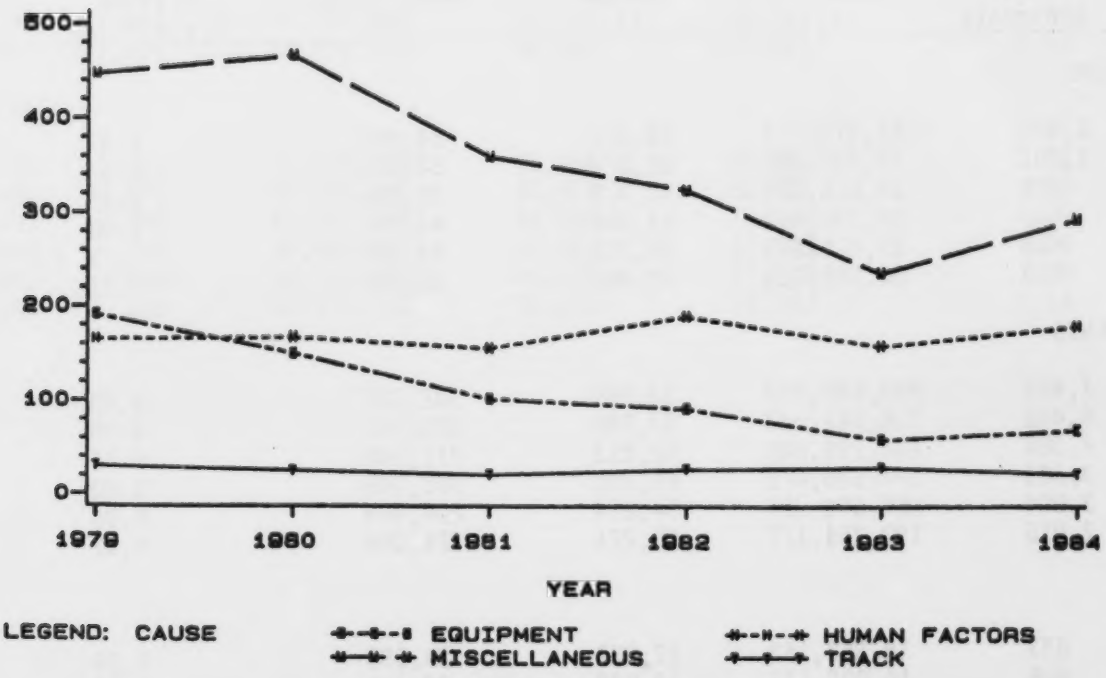


FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS - UNADJUSTED

TABLE 4. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRAIN-MILES

Year	Total Accidents	Total Damage ($)	Average Damage ($)	Damage /Million Train-Miles ($)	Accidents / Million Train-Miles
1979	9,740	313,907,209	32,229	411,181	12.76
1980	8,451	273,905,340	32,411	381,664	11.78
1981	5,781	237,514,603	41,085	351,240	8.55
1982	4,589	222,215,592	48,424	387,561	8.00
1983	3,906	208,350,456	53,341	373,261	7.00
1984	3,900	240,462,514	61,657	405,775	6.58

TABLE 5. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

Year	Total Accidents	Total Damage ($)	Average Damage ($)	Damage /Million Train-Miles ($)	Accidents / Million Train-Miles
COLLISIONS					
1979	1,425	41,919,343	29,417	54,909	1.87
1980	1,201	39,240,680	32,673	54,679	1.67
1981	776	24,814,627	31,978	36,696	1.15
1982	572	25,730,567	44,984	44,876	1.00
1983	418	27,476,243	65,733	49,224	.75
1984	419	30,185,019	72,041	50,937	.71
DERAILMENTS					
1979	7,482	253,630,703	33,899	332,225	9.80
1980	6,442	218,642,543	33,940	304,660	9.98
1981	4,366	184,299,946	42,213	272,546	6.46
1982	3,383	174,930,472	51,709	305,093	5.90
1983	3,004	164,659,964	54,814	294,989	5.38
1984	2,915	190,265,177	65,271	321,068	4.92
OTHER					
1979	833	18,357,163	22,037	24,059	1.09
1980	808	16,022,117	19,829	22,325	1.13
1981	639	28,400,030	44,444	41,998	.94
1982	634	21,554,553	33,998	37,593	1.11
1983	484	16,214,249	33,501	29,048	.87
1984	566	20,012,318	35,357	33,770	.96

TABLE 6. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY CAUSE

Year	Total Accidents	Total Damage ($)	Average Damage ($)	Damage/Million Train-Miles ($)	Accidents/ Million Train-Miles
HUMAN FACTORS					
1979	2,660	80,125,870	30,122	105,014	3.49
1980	2,323	63,121,042	27,172	87,954	3.24
1981	1,597	48,474,562	30,354	71,685	2.36
1982	1,284	41,815,988	32,567	72,930	2.24
1983	1,101	48,359,615	43,923	86,636	1.97
1984	1,100	54,963,882	49,967	92,750	1.86
EQUIPMENT FAILURES					
1979	1,815	76,768,530	42,297	100,614	2.38
1980	1,458	56,738,724	38,915	79,061	2.03
1981	1,016	60,480,146	59,528	89,439	1.50
1982	796	58,323,219	73,270	101,720	1.39
1983	638	50,293,734	78,830	90,101	1.14
1984	661	56,137,827	84,929	94,731	1.12
TRACK DEFECTS					
1979	4,050	110,582,493	27,304	144,931	5.31
1980	3,492	108,839,389	31,168	151,658	4.87
1981	2,273	79,997,917	35,195	118,302	3.36
1982	1,769	83,108,370	46,980	144,948	3.09
1983	1,581	83,340,024	52,713	149,304	2.83
1984	1,481	84,215,013	56,864	142,111	2.50
OTHER					
1979	1,215	46,430,316	38,214	60,852	1.59
1980	1,178	45,206,185	38,375	62,991	1.64
1981	895	48,561,978	54,259	71,814	1.32
1982	740	38,968,015	52,659	67,963	1.29
1983	586	26,357,083	44,978	47,219	1.05
1984	658	45,145,792	68,611	76,183	1.11

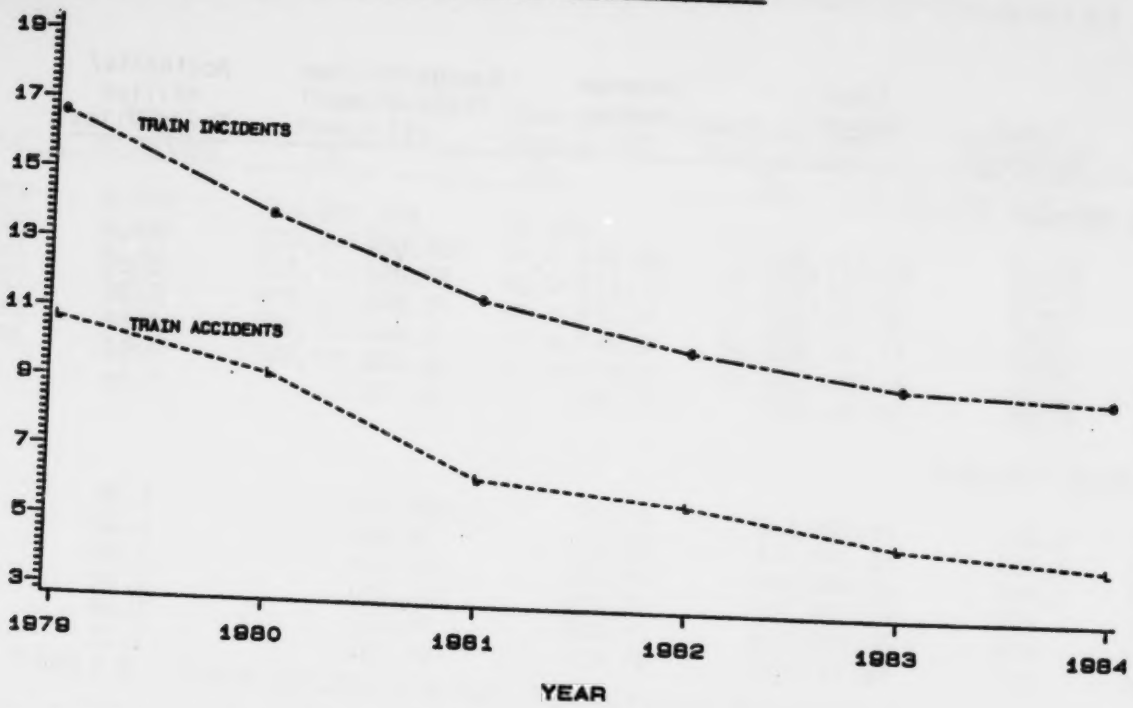


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

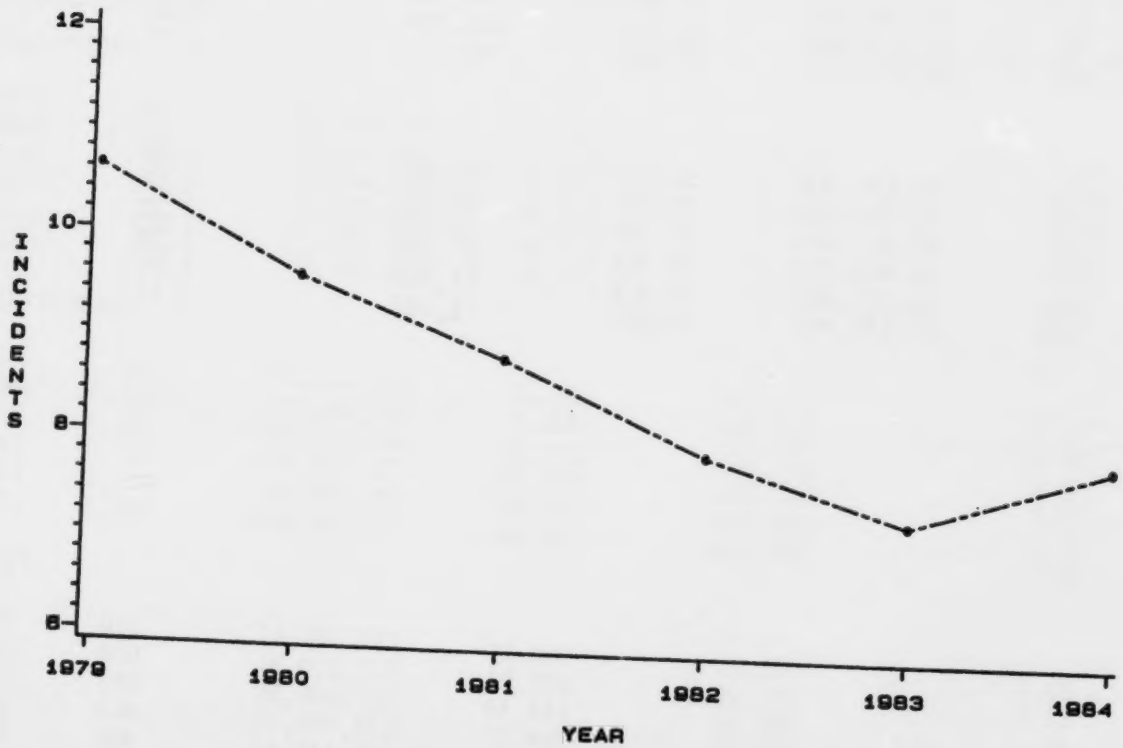


FIGURE 8. NON-TRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE 7. TOTAL ACCIDENTS/INCIDENTS

Year	Train Accidents	Train Incidents	Nontrain Incidents	Total
1979	9,740	15,159	57,213	82,112
1980	8,451	12,686	48,398	69,535
1981	5,781	10,485	41,757	58,023
1982	4,589	8,147	31,606	44,342
1983	3,906	7,695	26,485	38,086
1984	3,900	8,346	29,256	41,502

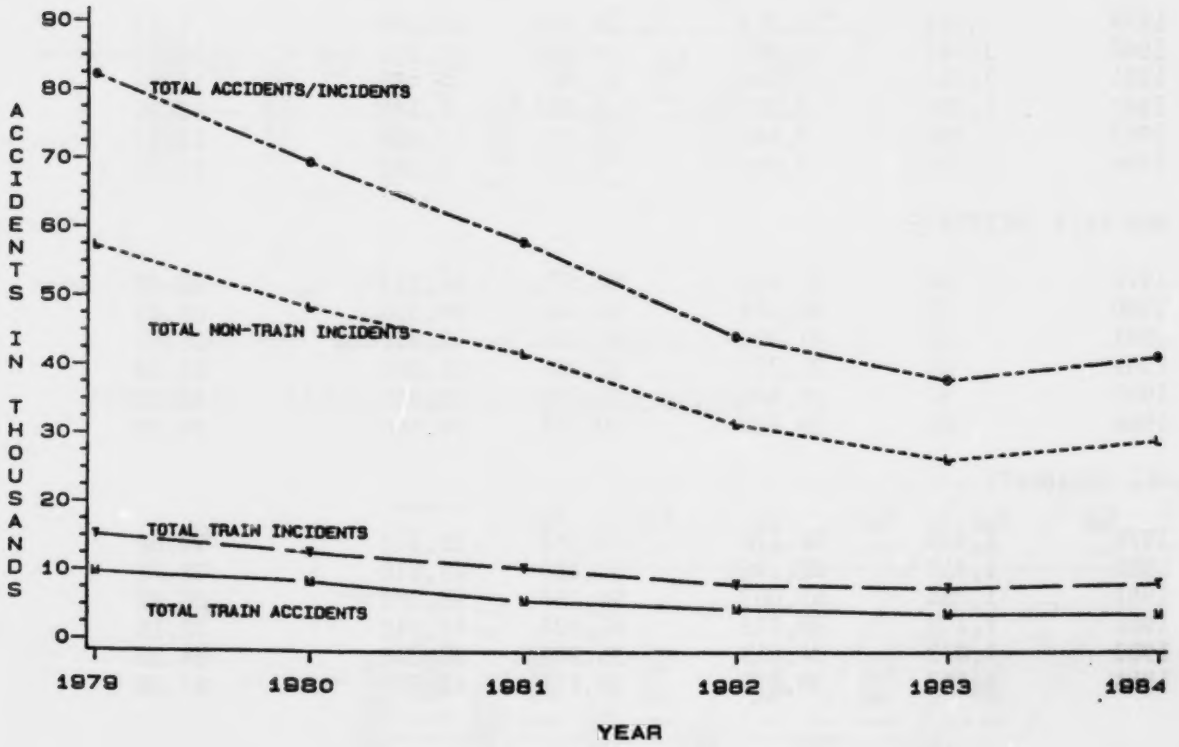


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS

TABLE 8. CASUALTIES IN ACCIDENTS/INCIDENTS

Class of Acc/Inc by Year	Casualties			Accidents	Casualties per Million Train Miles
	Fatal	Nonfatal	Total		
TRAIN ACCIDENTS					
1979	100	1,275	1,375	9,740	1.80
1980	97	860	957	8,451	1.33
1981	63	562	625	5,781	.92
1982	49	472	521	4,589	.91
1983	56	502	558	3,906	1.00
1984	63	893	956	3,900	1.61
TRAIN INCIDENTS					
1979	1,245	15,414	16,659	15,159	21.83
1980	1,242	12,802	14,044	12,686	19.57
1981	1,157	10,505	11,662	10,485	17.25
1982	1,004	8,026	9,030	8,147	15.75
1983	966	7,642	8,608	7,695	15.42
1984	1,118	8,245	9,363	8,346	15.80
NONTRAIN INCIDENTS					
1979	84	57,437	57,521	57,213	75.39
1980	78	48,584	48,662	48,398	67.81
1981	64	41,936	42,000	41,757	62.11
1982	66	31,777	31,843	31,606	55.54
1983	51	26,675	26,726	26,485	47.88
1984	66	29,432	29,498	29,256	49.78
ALL ACCIDENTS					
1979	1,429	74,126	75,555	82,112	99.02
1980	1,417	62,246	63,663	69,535	88.71
1981	1,284	53,003	54,287	58,023	80.28
1982	1,119	40,275	41,934	44,342	72.19
1983	1,073	34,819	35,892	38,086	64.30
1984	1,247	38,570	39,817	41,502	67.19

TABLE 9. CASUALTIES BY TYPE OF PERSON

Year	Employees On Duty		Employees Not On Duty		Passengers On Trains		Nontrespassers		Trespassers		Contractor Employees		Total	
	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj
1979	101	66,924	1	872	6	1,001	796	4,483	516	805	9	41	1,429	74,126
1980	97	56,331	4	671	4	593	739	3,849	566	728	7	74	1,417	62,246
1981	65	47,838	2	645	4	409	626	3,278	582	761	5	72	1,284	53,003
1982	78	36,032	2	509	9	387	525	2,595	501	671	4	81	1,119	40,275
1983	61	30,416	3	395	4	502	527	2,728	472	683	6	95	1,073	34,819
1984	59	33,364	5	444	12	1,000	576	2,881	588	773	7	108	1,247	38,570

NOTE: "Contractor employee" casualties are shown separately in this table.
In other tables they are included with "Nontrespassers".
"Inj" columns include occupational illnesses.

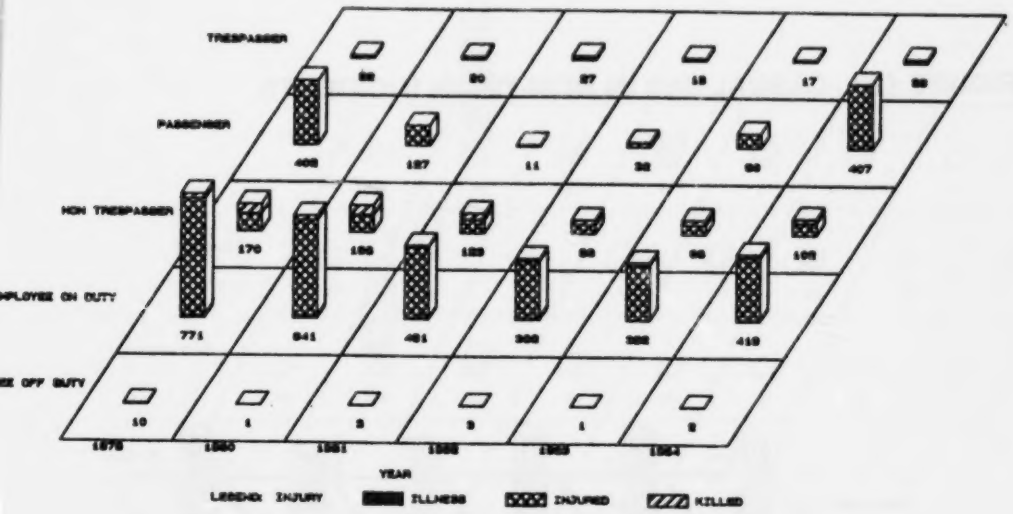


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS

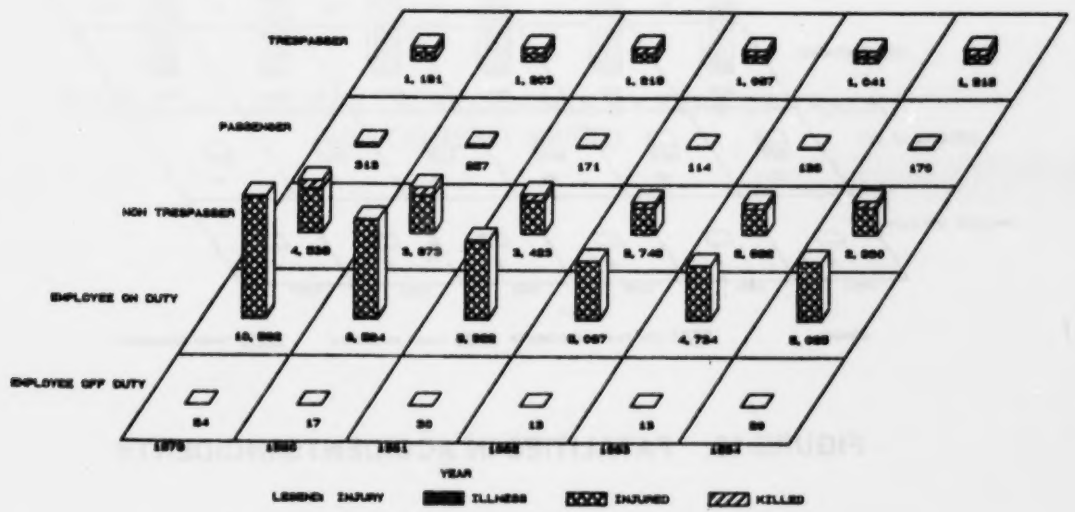


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS

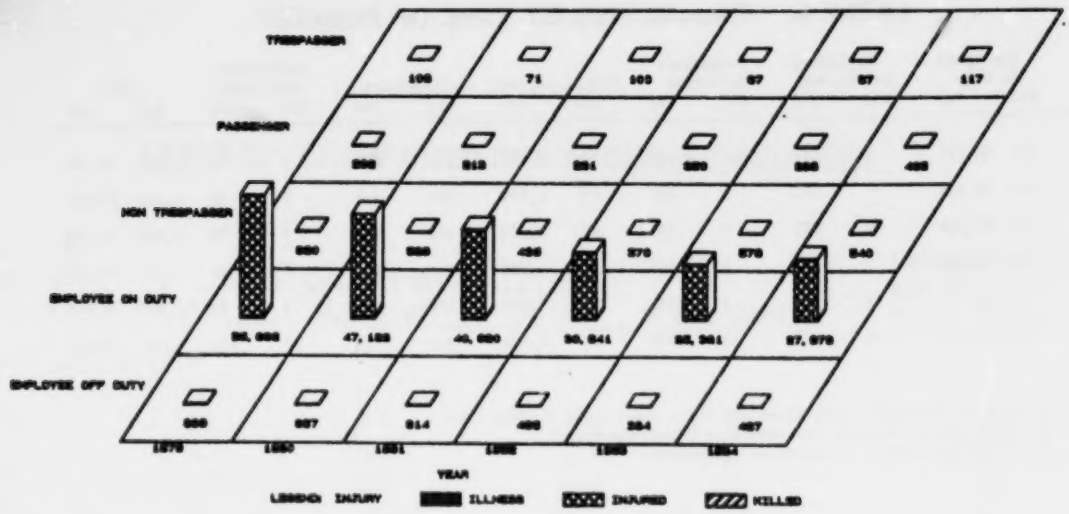


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS

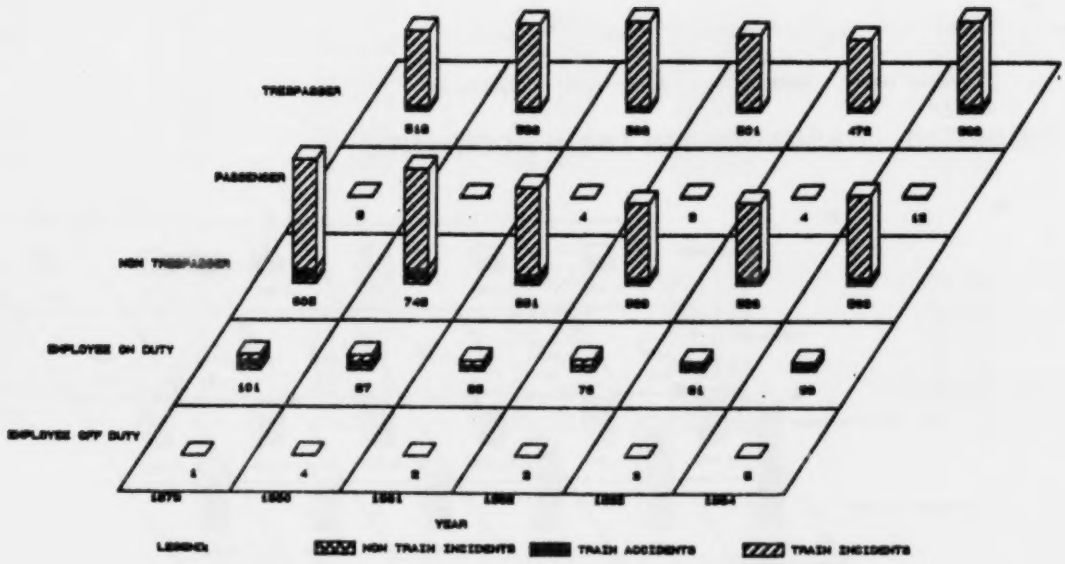


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS

2. OVERVIEW OF 1984 DATA

SPEED FACTOR IN ACCIDENTS

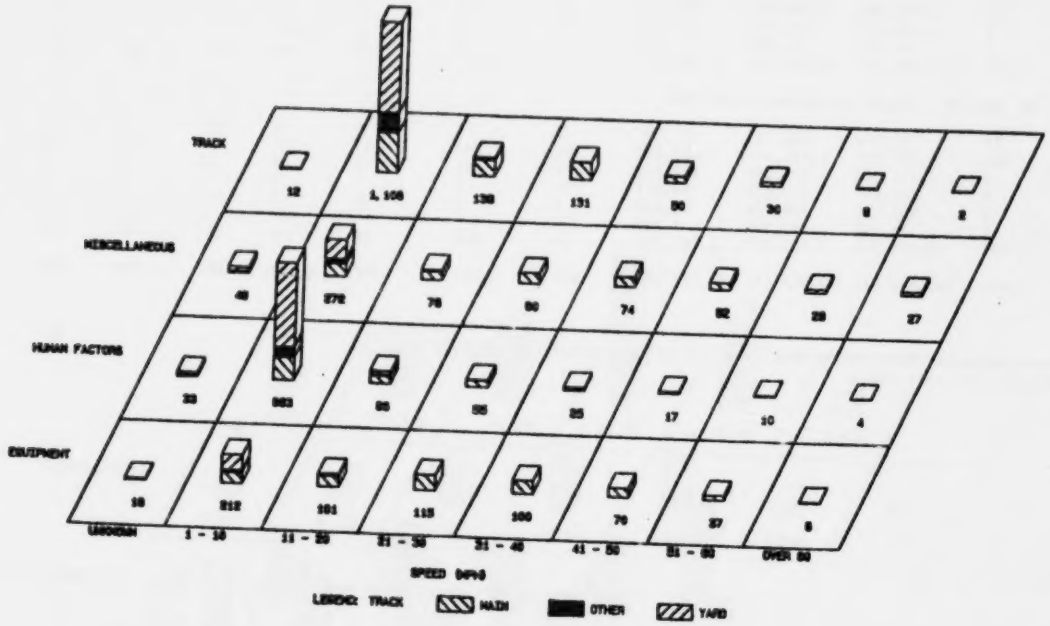


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

TABLE 10. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED

CONSIST SPEED	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
ACCIDENTS ON MAIN LINE TRACK											
UNKNOWN	28	4,541,229	1,873,080	2,668,149	2	10	16	5	8	6	9
1-10	635	19,293,990	13,312,198	5,981,792	48	532	55	293	80	165	95
11-20	317	19,909,527	14,656,776	5,252,751	23	264	30	119	81	55	62
21-30	369	38,680,386	31,592,659	7,087,727	12	293	64	127	114	49	79
31-40	243	45,855,678	39,638,252	6,217,426	17	168	58	48	99	23	73
41-50	168	33,835,529	30,057,172	3,778,357	8	105	55	30	69	17	52
51-60	85	28,326,539	25,340,039	2,986,500	7	55	23	9	37	10	29
61-70	27	3,097,994	2,789,602	308,392	2	5	20	1	4	2	20
71-80	10	5,884,045	5,607,350	276,695	1	2	7	1	2	2	5
81-90	1	120,000	120,000	—	—	—	1	—	—	—	1
>=91	3	51,265	26,965	24,300	—	—	3	—	2	—	1
TOTAL	1,886	199,596,182	165,014,093	34,582,089	120	1,434	332	635	496	329	426
ACCIDENTS ON YARD TRACK											
UNKNOWN	67	1,400,761	1,278,874	121,887	3	28	36	6	10	22	29
1-10	1,537	27,331,845	21,214,793	6,117,052	262	1,132	143	666	112	618	141
11-20	60	2,692,693	2,206,991	485,702	8	36	16	16	8	24	12
21-30	4	182,104	118,958	63,146	—	4	—	2	—	2	—
31-40	3	72,150	71,900	250	1	1	1	—	1	2	—
TOTAL	1,671	31,679,553	24,891,516	6,788,037	274	1,201	196	690	131	668	182
ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE											
UNKNOWN	14	328,208	306,351	21,857	3	3	6	1	—	3	8
1-10	283	6,272,401	4,991,509	1,280,892	16	240	27	147	20	80	36
11-20	34	1,214,078	972,058	242,020	5	26	3	4	12	14	4
21-30	8	505,692	410,650	95,042	—	6	2	2	1	4	1
31-40	3	832,150	748,950	83,200	1	2	—	2	—	—	1
41-50	1	34,250	33,000	1,250	—	1	—	—	1	—	—
TOTAL	343	9,186,779	7,462,518	1,724,261	25	280	38	156	34	103	50
FINAL	3,900	240,462,514	197,368,127	43,094,387	419	2,915	566	1,481	661	1,100	658

In those accidents that involve more than one moving consist, the highest reported speed appears in this table.

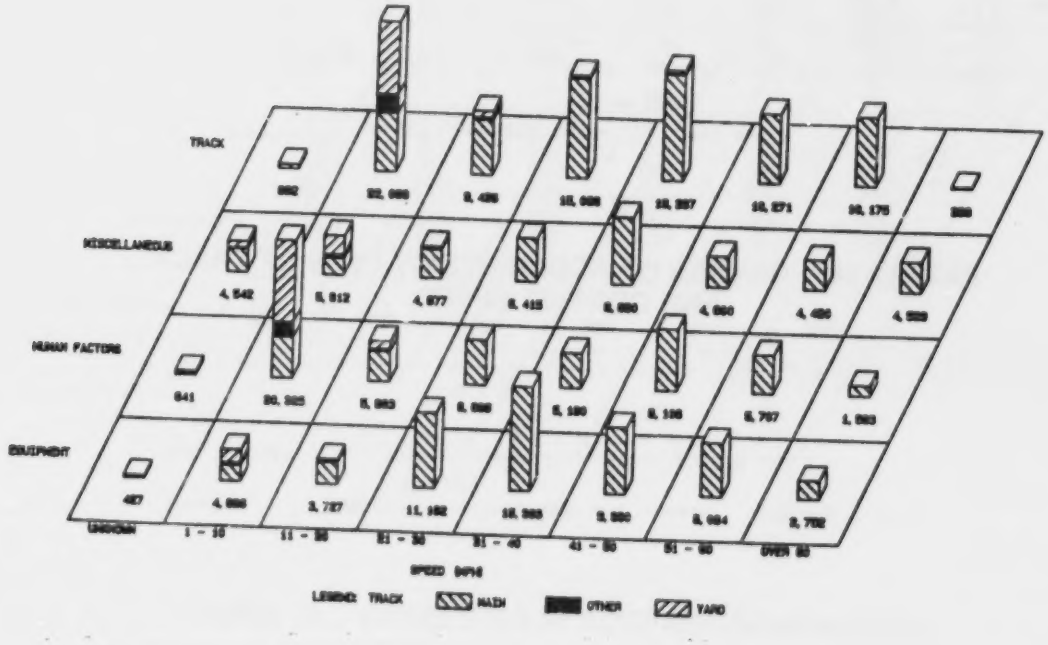


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE ($ 000's)

TABLE 11. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRACK CLASS

TRACK CLASS	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
?	420	8,322,999	6,697,663	1,625,336	71	301	48	151	47	169	53
1	1,731	37,067,559	28,646,021	8,421,538	221	1,327	183	794	140	585	212
2	584	41,140,045	32,578,428	8,561,617	37	467	80	236	95	149	104
3	634	75,741,734	63,347,296	12,394,438	38	472	124	212	186	100	136
4	457	68,863,523	58,544,287	10,319,236	41	306	110	81	169	82	125
5	67	9,210,689	7,475,767	1,734,922	10	42	15	7	22	14	24
6	7	115,965	78,663	37,300	1	—	6	—	2	1	4
TOTAL	3,900	240,462,514	197,368,127	43,094,387	419	2,915	566	1,481	661	1,100	658

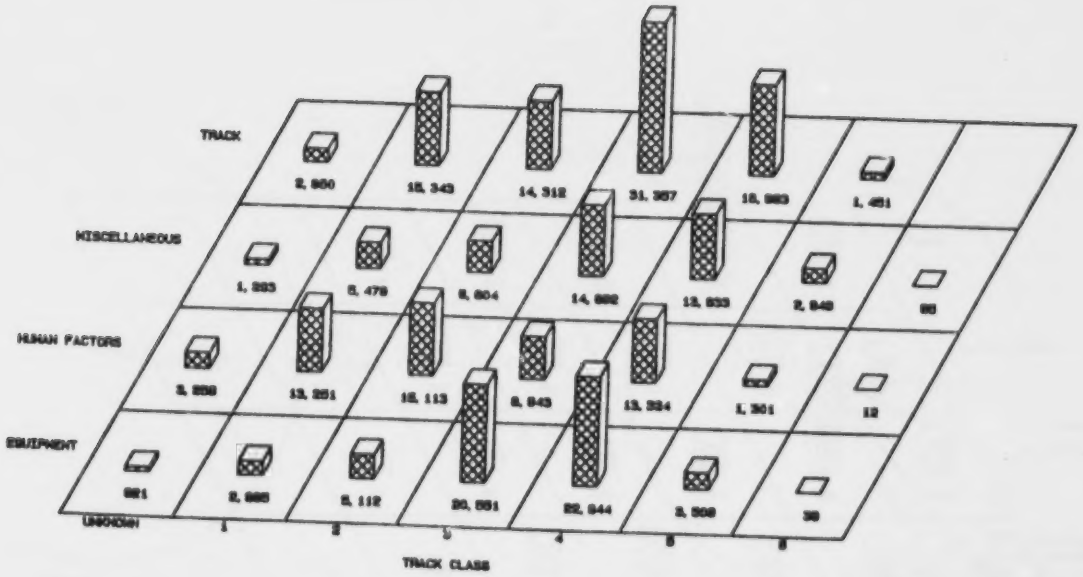


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE ($ 000's)

TABLE 12. REPORTABLE DAMAGES IN TRAIN ACCIDENTS BY TYPE AND CAUSE

Type of Accident	...Track Caused...		.Equipment Caused.		...Human Factors..		...Other Causes...		.....Total Damage.....	
	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg	Trk Dmg	Eqp Dmg
Derailment	14,379,633	68,677,742	13,131,900	40,625,771	5,124,837	22,487,944	6,744,987	19,072,363	39,401,357	150,863,820
Head on collision	1,100	32,000	—	—	221,717	10,073,862	10,400	3,300,450	233,217	13,406,312
Rear end collision	—	—	771	40,000	215,655	4,738,636	1,200	125,800	217,626	4,904,436
Side collision	48,350	580,863	3,016	75,427	554,010	7,983,841	41,643	706,186	647,019	9,346,317
Raking collision	2,144	103,776	15,000	72,343	11,007	265,207	55,599	126,310	83,750	567,636
Broken trn collisin	—	—	206,659	513,771	1,426	56,830	—	—	208,085	570,621
Rail-hwy crossing	—	—	—	—	50,000	91,600	1,210,836	9,723,861	1,260,836	9,815,461
RR grade crossing	—	—	—	—	—	—	—	—	—	—
Obstruction	25,000	300	3,314	71,000	21,699	657,973	153,200	762,667	203,213	1,491,940
Explosion-detonation	—	—	—	—	—	—	—	64,300	—	64,300
Fire/violent rupture	—	—	2,200	617,882	—	—	250	2,141,885	2,450	2,759,767
Other	107,691	256,414	167,287	571,486	213,828	2,193,790	348,028	555,827	836,834	3,577,517
TOTAL.....	14,563,918	69,651,095	13,550,147	42,587,680	6,414,179	48,549,703	8,566,143	36,579,649	43,094,387	197,368,127

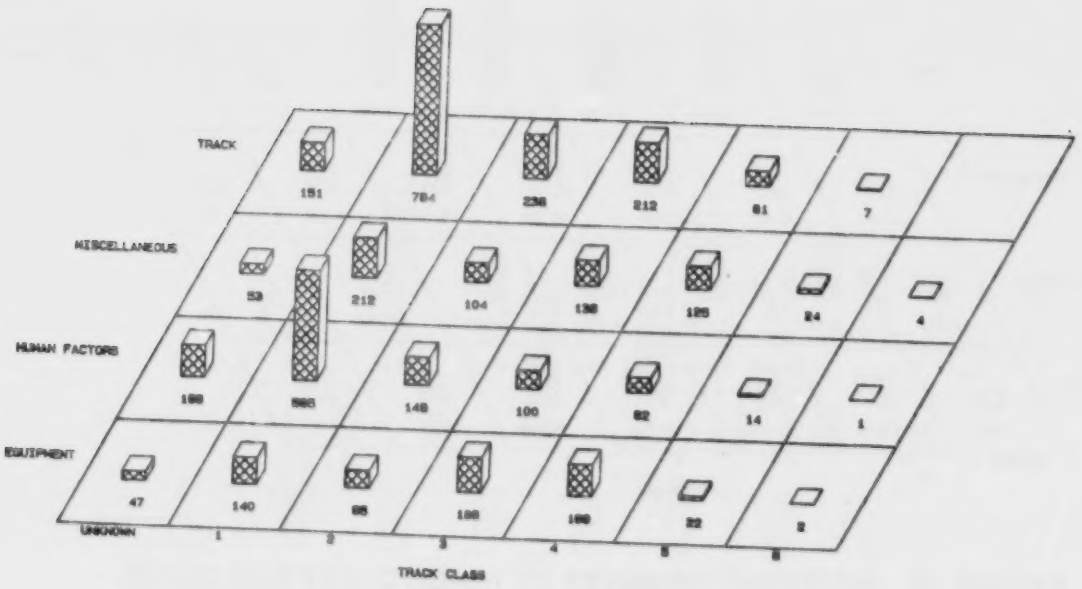


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

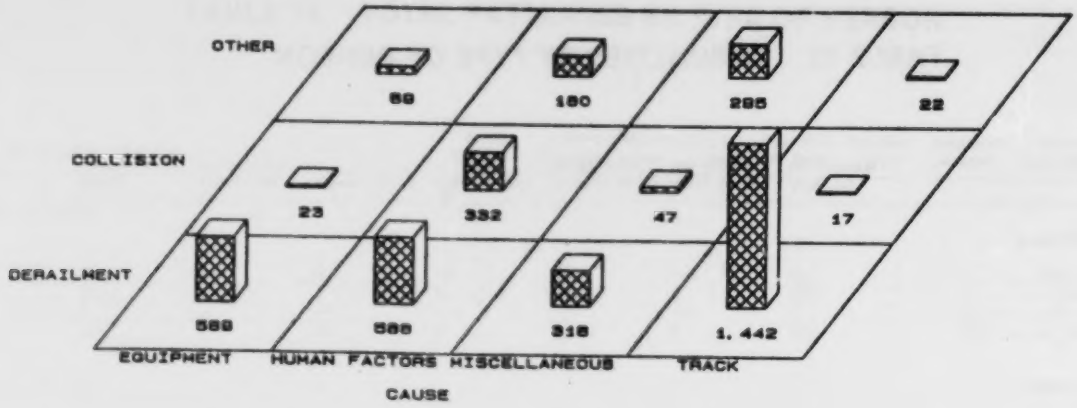


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

URIES AND FATALITIES BY TYPE OF PERSON

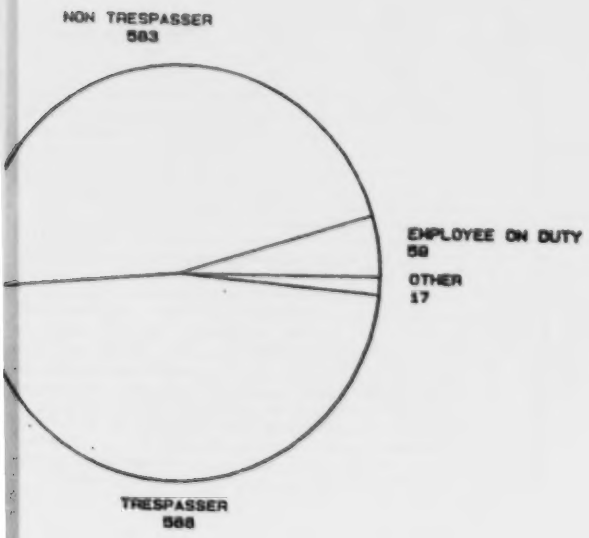


FIGURE 19A.
FATALITIES BY TYPE OF PERSON

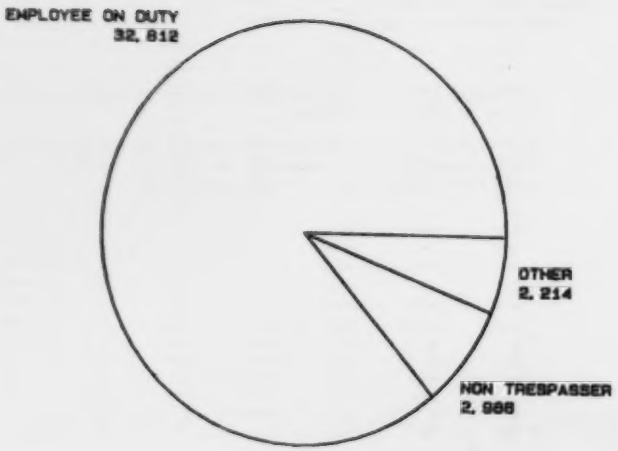


FIGURE 19B.
INJURIES BY TYPE OF PERSON

TABLE 13. CASUALTIES BY TYPE OF PERSON

	Employees On Duty	Employees Not On Duty	Passengers On Trains	Non-trespassers	Trespassers	Contractor Employees	Total
TRAIN ACCIDENTS							
Fatalities	19	—	4	—	4	—	27
Injuries	302	2	376	3	6	2	691
Occupational illnesses	9	—	—	—	—	—	9
Total casualties	330	2	380	3	10	2	727
TRAIN INCIDENTS							
Fatalities	23	2	7	13	466	2	515
Injuries	4,836	14	155	54	463	7	5,529
Occupational illnesses	83	—	—	—	—	—	83
Total casualties	4,942	16	162	69	929	9	6,127
NONTRAIN INCIDENTS							
Fatalities	14	1	1	6	29	5	56
Injuries	27,501	423	434	351	77	96	28,882
Occupational illnesses	460	3	—	—	—	3	466
Total casualties	27,975	427	435	357	106	104	29,404
RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS							
Fatalities	3	2	—	555	89	—	649
Injuries	173	2	35	2,473	227	—	2,910
Occupational illnesses	—	—	—	—	—	—	—
Total casualties	176	4	35	3,028	316	—	3,559
GRAND TOTAL							
Fatalities	59	5	12	576	588	7	1,247
Injuries	32,812	441	1,000	2,881	773	105	38,012
Occupational illnesses	552	3	—	—	—	3	558
Total casualties	33,423	449	1,012	3,457	1,361	115	39,817

Contractor employees are included with nontrespassers in all other tables in this publication.

Rail-highway crossing accidents/incidents may be classified as train accidents, train incidents, or nontrain incidents. In this table these casualities are shown separately.

TABLE 14. TOTAL FATALITIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
TRAIN ACCIDENTS								
Collisions	15	12	2	14	—	1	—	—
Derailments	11	3	1	4	—	3	—	4
Rail-highway x-ing	36	3	—	3	—	—	25	8
Miscellaneous	1	—	1	1	—	—	—	—
Total	63	18	4	22	—	4	25	12
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	1	—	—	—	—	—	1	—
Coupling/uncoupling air/steam hose, safety chains	1	1	—	1	—	—	—	—
Operating or on locomotives	1	1	—	1	—	—	—	—
Operating rail motorcars	—	—	—	—	—	—	—	—
Operating hand brakes	2	1	—	1	—	—	1	—
Operating switches or derails	—	—	—	—	—	—	—	—
Contacting fixed objects while on locos or cars	4	3	—	3	—	—	—	1
Getting on or off cars or locomotives	13	1	1	2	—	4	1	8
Collisions, derailments, etc. (<= $4,501)	2	—	—	—	—	—	1	1
Rail-highway crossing accidents/incidents	603	—	—	—	2	—	522	79
Struck by/ran into loco/car(not at rr-hwy x-ing)	457	4	2	6	2	—	10	439
Servicing or maintenance of equipment	4	—	4	4	—	—	—	—
Maintenance of way and structures	1	—	1	1	—	—	—	—
Freight, baggage, express or mail	2	—	2	2	—	—	—	—
Windows, doors, etc., on on-track equipment	1	—	—	—	—	—	—	1
Passenger car doors	—	—	—	—	—	—	—	—
Stumbling, slipping, falling, caught, N.O.C	8	—	—	—	—	2	1	5
Flying or falling objects, burns, etc., N.O.C	2	—	—	—	—	—	—	2
Operation of on-track work equipment	2	—	1	1	—	—	1	—
Assault	2	1	—	1	—	—	1	—
Other occurrences	10	—	—	—	—	1	—	9
Total	1,118	12	11	23	4	7	539	545
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	—	—	—	—	—	—	—	—
Coupling/uncoupling air/steam hose, safety chains	—	—	—	—	—	—	—	—
Operating or on locomotives	—	—	—	—	—	—	—	—
Operating rail motorcars	—	—	—	—	—	—	—	—
Operating hand brakes	—	—	—	—	—	—	—	—
Operating switches or derails	—	—	—	—	—	—	—	—
Contacting fixed objects while on locos or cars	—	—	—	—	—	—	—	—
Getting on or off cars or locomotives	—	—	—	—	—	—	—	—
Collisions, derailments, etc. (<= $4,501)	—	—	—	—	—	—	—	—
Rail-highway crossing accidents/incidents	10	—	—	—	—	—	8	2
Struck by/ran into loco/car(not at rr-hwy x-ing)	3	—	—	—	—	—	—	3
Servicing or maintenance of equipment	1	—	1	1	—	—	—	—
Maintenance of way and structures	9	—	9	9	—	—	—	—
Freight, baggage, express or mail	2	—	—	—	—	—	—	2
Windows, doors, etc., on on-track equipment	—	—	—	—	—	—	—	—
Passenger car doors	—	—	—	—	—	—	—	—
Stumbling, slipping, falling, caught, N.O.C	12	—	—	—	—	—	6	6
Flying or falling objects, burns, etc., N.O.C	10	—	—	—	—	—	2	8
Operation of on-track work equipment	1	—	1	1	—	—	—	—
Assault	2	—	—	—	1	—	—	1
Other occurrences	16	—	3	3	—	1	3	9
Total	66	—	14	14	1	1	19	31
Grand total	1,247	30	29	59	5	12	583	588

TABLE 15. TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

Type Of Accident/Incident	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS								
Collisions	427	92	20	112	1	312	2	—
Derailments	217	122	38	160	1	51	1	4
Rail-highway x-ing	193	61	25	86	—	27	72	8
Miscellaneous	56	30	9	39	—	13	2	2
Total	893	305	92	397	2	403	77	14
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	317	312	5	317	—	—	—	—
Coupling/uncoupling air/steam hose, safety chains	49	47	2	49	—	—	—	—
Operating or on locomotives	842	821	21	842	—	—	—	—
Operating rail motorcars	37	18	18	36	—	—	1	—
Operating hand brakes	118	117	—	117	—	—	1	—
Operating switches or derails	40	38	2	40	—	—	—	—
Contacting fixed objects while on locos or cars	106	101	1	102	1	2	—	1
Getting on or off cars or locomotives	1,196	1,040	39	1,079	4	20	5	88
Collisions, derailments, etc. (<= 84,301)	145	105	28	133	1	—	4	7
Rail-highway crossing accidents/incidents	2,633	73	10	83	2	8	2,330	210
Struck by/ran into loco/car(not at rr-hwy x-ing)	421	36	18	54	2	—	25	340
Servicing or maintenance of equipment	120	1	118	119	—	—	1	—
Maintenance of way and structures	184	4	180	184	—	—	—	—
Freight, baggage, express or mail	33	12	15	27	—	5	—	1
Windows, doors, etc., on on-track equipment	128	91	16	107	—	20	1	—
Passenger car doors	12	3	1	4	1	7	—	—
Stumbling, slipping, falling, caught, N.O.C	272	184	24	208	1	46	6	11
Flying or falling objects, burns, etc., N.O.C	517	476	19	495	—	14	7	1
Operation of on-track work equipment	134	15	116	131	1	2	—	—
Assault	123	116	2	118	1	4	—	—
Other occurrences	818	680	77	757	2	35	10	14
Total	8,245	4,290	712	5,002	16	163	2,391	673
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	741	713	27	740	1	—	—	—
Coupling/uncoupling air/steam hose, safety chains	315	258	57	315	—	—	—	—
Operating or on locomotives	541	466	74	540	1	—	—	—
Operating rail motorcars	76	21	54	75	1	—	—	—
Operating hand brakes	498	463	33	496	1	—	1	—
Operating switches or derails	1,326	1,241	84	1,325	1	—	—	—
Contacting fixed objects while on locos or cars	27	13	11	24	—	2	1	—
Getting on or off cars or locomotives	1,421	965	265	1,230	9	157	21	4
Collisions, derailments, etc. (<= 84,301)	—	—	—	—	—	—	—	—
Rail-highway crossing accidents/incidents	84	—	4	4	—	—	71	9
Struck by/ran into loco/car(not at rr-hwy x-ing)	33	5	6	11	—	—	3	19
Servicing or maintenance of equipment	6,689	104	6,523	6,627	34	—	28	—
Maintenance of way and structures	10,687	41	10,524	10,565	72	1	49	—
Freight, baggage, express or mail	131	18	110	128	—	2	1	—
Windows, doors, etc., on on-track equipment	508	194	284	478	3	18	8	1
Passenger car doors	33	13	8	21	—	32	2	—
Stumbling, slipping, falling, caught, N.O.C	2,840	1,011	1,035	2,046	179	181	214	20
Flying or falling objects, burns, etc., N.O.C	707	401	252	653	10	10	25	9
Operation of on-track work equipment	150	2	140	142	1	5	2	—
Assault	218	56	140	196	3	7	8	4
Other occurrences	2,585	496	1,853	2,349	110	19	87	20
Total	29,432	6,481	21,484	27,965	426	434	321	86
Grand total	38,570	11,076	22,288	33,364	444	1,000	2,989	773

TABLE 16. TOTAL ACCIDENTS/INCIDENTS BY OCCURRENCE

Type Of Accident/Incident	.....Accidents/Incidents..... Total	Fatal	Nonfatal
TRAIN ACCIDENTS *			
Collisions	419	8	51
Derailments	2,915	7	95
Rail-highway crossing	188	31	80
Miscellaneous	378	1	28
Total	3,900	47	254
TRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars	316	1	315
Coupling/uncoupling air/steam hose, safety chains.	50	1	49
Operating or on locomotives	828	1	827
Operating rail motorcars	37	---	37
Operating hand brakes	120	2	118
Operating switches or derails	40	---	40
Contacting fixed objects while on locos or cars	109	4	105
Getting on or off cars or locomotives	1,208	15	1,193
Collisions, derailments, etc. (<= $4,501)	133	2	131
Rail-highway crossing accidents/incidents	2,333	491	1,842
Struck by/ran into loco/car(not at rr-hwy x-ing).	849	446	403
Servicing or maintenance of equipment	124	4	120
Maintenance of way and structures	184	1	183
Freight, baggage, express or mail	35	2	33
Windows, doors, etc., on on-track equipment	128	1	127
Passenger car doors	12	---	12
Stumbling, slipping, falling, caught, N.O.C.	279	8	271
Flying or falling objects, burns, etc., N.O.C.	503	2	501
Operation of on-track work equipment	132	2	130
Assault	125	2	123
Other occurrences	801	9	792
Total	8,346	994	7,352
NONTRAIN INCIDENTS			
Coupling and uncoupling locomotives or cars	741	---	741
Coupling/uncoupling air/steam hose, safety chains.	315	---	315
Operating or on locomotives	536	---	536
Operating rail motorcars	76	---	76
Operating hand brakes	496	---	496
Operating switches or derails	1,324	---	1,324
Contacting fixed objects while on locos or cars	27	---	27
Getting on or off cars or locomotives	1,416	---	1,416
Collisions, derailments, etc. (<= $4,501)	---	---	---
Rail-highway crossing accidents/incidents	71	9	62
Struck by/ran into loco/car(not at rr-hwy x-ing).	33	3	30
Servicing or maintenance of equipment	6,680	1	6,679
Maintenance of way and structures	10,658	9	10,649
Freight, baggage, express or mail	130	1	129
Windows, doors, etc., on on-track equipment	507	---	507
Passenger car doors	54	---	54
Stumbling, slipping, falling, caught, N.O.C.	2,646	12	2,634
Flying or falling objects, burns, etc., N.O.C.	700	10	690
Operation of on-track work equipment	131	1	130
Assault	219	2	217
Other occurrences	2,476	16	2,460
Total	29,256	64	29,192
Grand total	41,502	1,105	36,798

NOTE: Train accidents do not require a casualty to be reportable. See definition in Appendix A.

The total number of rail-highway accidents in the TRAIN ACCIDENT category only includes those that exceed the monetary threshold for reporting. Those in the TRAIN INCIDENT and NONTRAIN INCIDENT categories only include those accidents/incidents that resulted in reportable casualties.

For more information concerning rail-highway crossing accidents/incidents, refer to the "RAIL-HIGHWAY CROSSING AND INVENTORY BULLETIN."

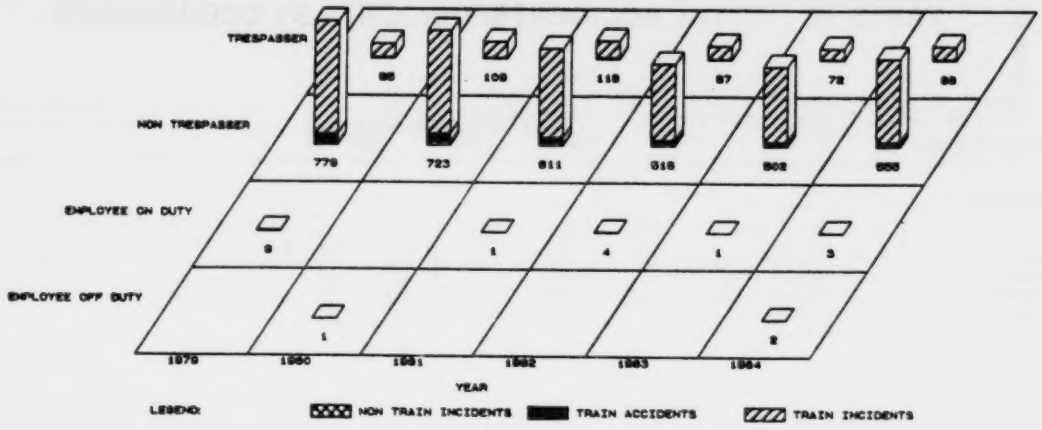


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON

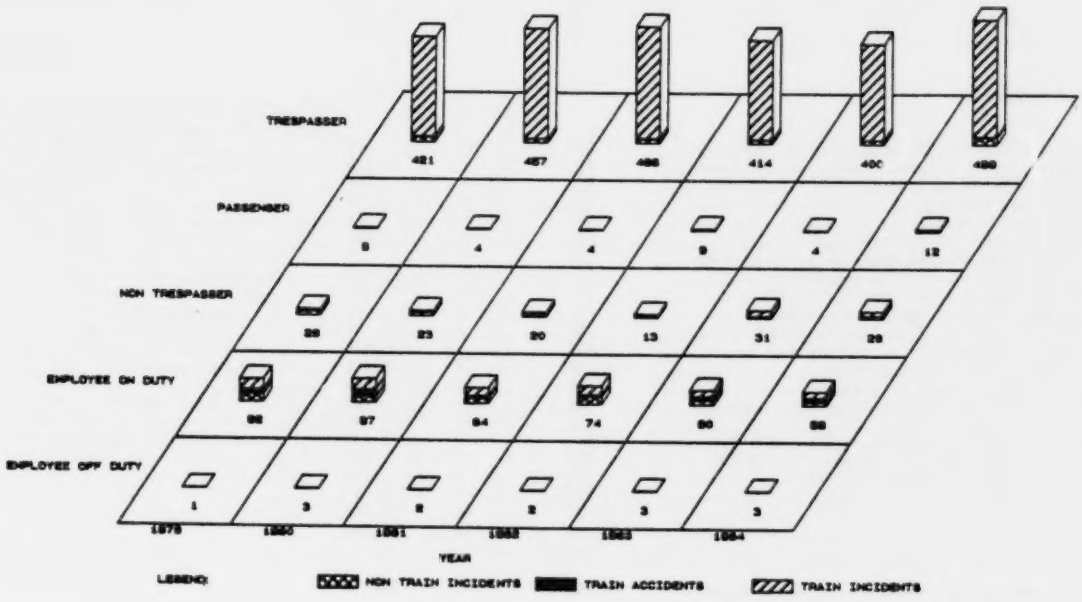


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS

TABLE 17. TRAIN ACCIDENTS BY MONTH

Month	Accs	Accs Per MTM	Total Damage	Damage Per MTM	Train Miles: Locomotive	Motor	Yard Switching	Total
January	323	6.45	16,534,217	$329,965.02	36,837,270	2,571,856	10,699,831	50,108,957
February	353	7.10	18,649,010	$375,005.23	36,599,736	2,514,334	10,616,102	49,730,192
March	380	7.19	28,178,848	$532,832.52	38,831,250	2,687,619	11,366,586	52,885,455
April	339	6.80	25,409,599	$509,404.36	36,490,238	2,569,376	10,821,581	49,881,195
May	331	6.43	21,199,685	$411,940.33	37,619,710	2,692,953	11,150,112	51,462,775
June	362	7.32	27,408,488	$554,132.22	36,313,658	2,610,853	10,537,351	49,461,862
July	358	7.26	31,250,623	$634,092.67	36,115,297	2,675,384	10,493,155	49,283,836
August	320	6.28	15,698,272	$308,129.47	37,402,230	2,736,501	10,808,476	50,947,207
September	310	6.46	12,755,602	$265,891.27	35,251,787	2,621,074	10,100,229	47,973,090
October	286	5.75	15,140,813	$304,411.38	36,248,288	2,745,569	10,743,864	49,737,721
November	258	5.58	14,083,060	$304,564.45	33,797,218	2,651,933	9,791,165	46,240,316
December	280	6.24	14,154,297	$315,331.77	32,829,219	2,721,410	9,336,802	44,887,431
Total...	3,900	6.58	240,462,514	$405,775.42	434,335,921	31,798,862	126,465,254	592,600,037

NOTE: "MTM" = Million train miles

TABLE 18. TRAIN ACCIDENTS BY TYPE AND MONTH

Type of Accident	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Derailment	240	261	293	251	245	282	262	250	232	203	190	206	2,915
Head on collision	3	2	3	4	3	4	4	5	—	3	—	1	32
Rear end collision	3	5	7	4	5	7	4	2	3	8	3	1	52
Side collision	20	24	25	31	27	18	32	19	25	21	19	21	282
Raking collision	5	5	4	3	2	3	1	5	2	2	3	4	39
Broken train collision	2	—	—	2	1	—	2	—	3	1	2	1	14
Rail-hwy crossing	22	17	15	11	23	13	15	13	10	20	10	19	188
RR grade crossing	—	—	—	—	—	—	—	—	—	—	—	—	—
Obstruction	3	3	6	9	5	7	9	2	6	6	4	4	64
Explosion-detonation	—	—	—	—	—	—	—	—	1	—	1	—	2
Fire or violent rupture	1	5	4	5	3	6	8	3	9	3	2	2	51
Other	24	31	23	19	17	22	21	21	19	19	24	21	261
TOTAL.....	323	353	380	339	331	362	358	320	310	286	258	280	3,900

ACCIDENTS: DETAILS OF 1984 OCCURRENCES

BLE 19. TRAIN ACCIDENTS AND DAMAGES BY PRINCIPAL CAUSES AND SUBCAUSES

use Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
RACK, ROADBED AND STRUCTURES						
oadbed defects	80	14,975,538	—	80	—	—
rack geometry defects	662	29,227,153	3	655	4	—
ail and joint bar defects	362	29,301,636	1	360	1	—
rogs, switches and track appliances	350	9,147,431	12	333	5	—
ther way and structure	17	1,337,597	—	9	8	—
ignal and communication failures	10	225,638	1	5	4	—
Subtotal	1,481	84,215,013	17	1,442	22	—
ECHANICAL AND ELECTRICAL FAILURES						
LOCOMOTIVE FAILURE						
rakes	5	243,466	2	2	1	—
ody	—	—	—	—	—	—
oupler and draft system	4	193,788	—	3	1	—
ruck components	—	—	—	—	—	—
xles and journal bearings	3	2,486,032	—	3	—	—
heels	7	501,622	—	7	—	—
ocomotives	29	665,803	—	8	21	—
oors	—	—	—	—	—	—
eneral mechanical and electrical failures	8	157,600	—	3	5	—
Subtotal (Locomotives)	56	4,250,311	2	26	28	—
CAR FAILURE						
rakes	62	4,413,751	4	53	5	—
railer or container on flat car	7	142,600	—	2	5	—
ody	52	3,109,928	1	41	10	—
oupler and draft system	86	4,090,746	11	67	8	—
ruck components	126	6,923,206	—	124	2	—
xles and journal bearings	126	20,725,065	—	123	3	—
heels	128	11,940,464	1	125	2	—
oors	7	192,807	3	3	1	—
eneral mechanical and electrical failures	11	348,949	1	5	5	—
Subtotal (cars)	605	51,887,516	21	543	41	—
TOTAL EQUIPMENT FAILURES	661	56,137,827	23	569	69	—
RAIN OPERATION - HUMAN FACTORS						
rakes, use of	174	7,041,983	71	75	28	—
mployee physical condition	4	6,039,737	3	1	—	—
lagging, fixed, hand and radio signals	38	2,824,535	26	9	3	—
ther rules and instructions	305	12,886,241	157	73	75	—
peed	73	8,228,735	15	42	16	—
witches, use of	109	6,175,620	45	105	19	—
iscellaneous	337	11,767,031	15	283	37	2
Subtotal	1,100	54,963,882	332	588	178	2
ISCELLANEOUS FACTORS						
ollision with highway user at crossing site	184	10,890,297	—	—	—	184
mergency brake application to avoid accident	14	2,357,347	—	13	—	1
andalism	75	3,819,125	0	50	17	—
terference with rr operation, not vandals	11	216,399	1	8	2	—
oad shifted	28	1,740,716	8	18	2	—
oad fell from car	7	152,264	—	2	5	—
verloaded car	3	74,099	—	3	—	—
mproperly loaded car	18	300,618	1	16	1	—
verated load, misrouted	4	150,902	1	1	2	—
bject on or fouling track	52	3,113,925	1	32	19	—
quipment on or fouling track	19	320,675	11	1	7	—
ail/contain tiedown eqp impr applied	5	105,400	1	—	4	—
verload/improper loaded container etc	2	130,500	—	—	2	—
nteraction of lateral/vertical forces	102	4,094,051	—	100	2	—
ailure to control car spd with hand brk	3	36,557	—	1	2	—
ow, ice, or mud on track	15	998,599	—	15	—	—
ther acts of God	7	277,500	1	3	3	—
re, not due to vandalism	17	1,716,699	—	—	17	—
mp retarder failed to slow car	21	223,233	8	3	10	—
itch fouled by lading chains, etc	3	215,600	1	2	—	—
ther causes	68	11,911,284	5	48	14	1
Subtotal	658	45,145,792	47	316	109	186
AND TOTAL	3,900	240,462,514	419	2,915	378	188

TABLE 20. TRAIN ACCIDENTS RESULTING FROM HUMAN FACTORS BY SPECIFIC CAUSES

	Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	BRAKES, USE OF						
500	Automatic brake, improper use	20	1,246,655	4	15	1	—
501	Dynamic brake, improper use	5	538,288	—	5	—	—
502	Failure to secure engine (R.R. emp.)	22	830,230	11	7	4	—
503	Failure to secure hnd brk (R.R. emp)	26	419,208	12	8	6	—
504	Failure to apply sufficient hand brake	43	2,610,133	21	17	5	—
505	Failure to apply hnd brk on car (emp.)	24	485,560	12	4	8	—
506	Fail. to secure eng/car (Non R.R. emp)	5	78,550	2	1	2	—
507	Indspendent (eng.) brake, improper use	10	487,194	3	6	1	—
508	Fail. to control spd,hnd brk (R.R.emp)	7	169,157	2	4	1	—
509	Other causes involving use of brakes	12	177,008	4	8	—	—
	SUBTOTAL	174	7,041,983	71	75	28	—
	EMPLOYEE PHYSICAL CONDITION						
510	Impairment due to alcohol or drugs	2	4,396,634	1	1	—	—
513	Employee falling asleep	2	1,643,103	2	—	—	—
	SUBTOTAL	4	6,039,737	3	1	—	—
	FLAGGING, FIXED, HAND AND RADIO SIGNALS						
519	Fixed signal improperly displayed	1	9,000	1	—	—	—
52A	Block signal, failure to comply	5	811,686	5	—	—	—
52B	Interlocking signal, failure to comply	2	305,277	2	—	—	—
520	Fixed signal, failure to comply	7	796,920	6	1	—	—
521	Flagging, improper or failure to flag	1	10,875	—	1	—	—
523	Hand signal, failure to comply	4	66,626	3	—	1	—
524	Hand signal improper	2	113,175	2	—	—	—
525	Hand signal, failure to give/receive	1	12,800	1	—	—	—
526	Radio communication, failure to comply	3	31,900	1	2	—	—
527	Radio communication, improper	3	36,324	—	1	2	—
528	Radio comm., failure to give/receive	5	56,369	2	3	—	—
529	Flagging, fixed, hand & radio (other)	4	573,583	3	1	—	—
	SUBTOTAL	38	2,824,535	26	9	3	—
	OTHER RULES AND INSTRUCTIONS						
530	Car(s) shoved out & left out of clear	6	103,335	3	1	2	—
531	Cars left foul	47	489,122	24	7	16	—
532	Derail, failure to apply or remove	16	339,241	—	15	1	—
533	Failure to stop train in clear	48	3,312,348	38	1	9	—
535	Instruction to trn/yard crew improper	9	334,200	5	—	4	—
536	Mtr car/on-trk eqp rules,fail to cmply	27	309,615	9	3	15	—
537	Equip move without authority (RR emp)	6	310,551	4	1	1	—
538	Shoving move, missing man at lead	88	1,491,470	51	24	13	—
539	Shoving movement, fail to control	32	433,161	11	15	6	—
540	Skate, failure to remove or place	1	62,926	—	1	—	—
541	Special op. instr., failure to comply	9	1,160,679	4	3	2	—
542	Trn ord/timetable auth, fail to comply	5	138,800	4	—	1	—
544	Trn ord(written)err in preparation,etc	1	3,837,146	1	—	—	—
549	Rules and instructions, other	10	563,647	3	2	5	—
	SUBTOTAL	305	12,886,241	157	73	75	—

TABLE 20. (CONTINUED)

Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
SPEED						
50 Coupling speed excessive	32	649,117	5	17	10	—
53 Switch movement, excessive speed	11	211,176	2	7	2	—
54 Trn inside yrd limit, excess speed	15	623,463	5	7	3	—
55 Trn out yrd limit,clear blk,excess spd	10	6,221,334	—	10	—	—
59 Other Causes involving excessive speed	5	523,645	3	1	1	—
SUBTOTAL	73	8,228,735	15	42	16	—
SWITCHES, USE OF						
60 Spring switch not clear before reverse	7	179,997	—	7	—	—
61 Switch improperly lined	103	3,969,525	39	49	15	—
62 Switch not latched or locked	6	171,274	1	5	—	—
63 Switch previouly run through	45	709,324	3	39	3	—
69 Use of switches, other	8	1,145,500	2	5	1	—
SUBTOTAL	169	6,175,620	45	105	19	—
MISCELLANEOUS						
70 Buffing or slack action excessive	175	8,062,171	2	170	3	—
71 Failure to couple	6	129,730	4	2	—	—
72 Lateral drawbar force on curve excess	60	1,902,266	—	60	—	—
73 Moving car,loading ramp not positioned	1	7,000	—	—	1	—
76 Passed couplers	44	467,642	—	31	13	—
78 Retarder, improper manual operation	18	257,897	2	6	10	—
79 Other train operation/human factors	33	940,325	7	14	10	2
SUBTOTAL	337	11,767,031	15	283	37	2
GRAND TOTAL	1,100	54,963,882	332	588	178	2

TABLE 21. TRAIN ACCIDENTS RESULTING FROM MECHANICAL AND ELECTRICAL FAILURES BY SPECIFIC CAUSE

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	BRAKES						
400	Air hose uncoupled or burst	17	2,333,930	---	17	---	---
402	Broken brake pipe or connections	3	532,550	---	3	---	---
403L	Obstructed brake pipe - locomotive	1	24,566	1	---	---	---
404	Other brake component failure, etc	3	54,734	1	2	---	---
405	Brk valve malf. (undesired emergency)	6	267,674	---	6	---	---
405L	Brk valve malf - loco (emergency appl)	1	180,700	---	1	---	---
406	Brake valve malfunctio/stuck brake/etc	5	150,300	---	2	3	---
406L	Brk valve malf./stuck brake/etc - loco	2	16,000	1	---	1	---
407	Rigging down or dragging	16	675,879	---	15	1	---
408	Hand brake/gear broken or defective	6	66,225	3	3	---	---
409	Hand brk linkage/connections failure	1	11,000	---	1	---	---
410	Other brake failure(not on locomotive)	5	121,459	---	4	1	---
410L	Other brake failure - locomotive	1	22,200	---	1	---	---
	SUBTOTAL	67	4,657,217	6	53	6	---
	TRAILER OR CONTAINER ON FLAT CAR						
411	Broken or defective tiedown equipment	6	112,600	---	1	5	---
413	Broken or defective trailer	1	30,000	---	1	---	---
	SUBTOTAL	7	142,600	---	2	5	---
	BODY						
420	Body bolster broken or defective	1	52,688	---	1	---	---
421	Center sill broken or bent	10	351,715	1	6	3	---
422	Draft sill broken or bent	5	120,514	---	2	3	---
423	Center plate broken or defective	7	858,490	---	7	---	---
424	Center plate disengaged from truck	17	766,888	---	15	2	---
425	Center pin broken or missing	1	277,000	---	1	---	---
426	Center plate attachment defective	4	523,017	---	4	---	---
427	Side sill broken	4	119,639	---	4	---	---
429	Other causes due to body (not loco)	3	39,977	---	1	2	---
	SUBTOTAL	52	3,109,928	1	41	10	---
	COUPLER AND DRAFT SYSTEM						
430	Knuckle broken or defective	20	1,430,245	2	16	2	---
431	Coupler mismatch, high/low	8	90,269	3	5	---	---
432	Coupler drawhead broken or defective	9	211,581	1	6	2	---
433	Coupler retainer pin/cross key missing	10	1,068,142	---	9	1	---
434	Draft gear/mechanism broken/defective	13	640,209	1	10	2	---
435	Coupler carrier broken or defective	3	110,900	1	2	---	---
435L	Coupler carrier broken/defective-loco	1	45,000	---	1	---	---
436	Coupler shank broken or defective	7	173,250	1	6	---	---
439	Other coupler and draft system causes	16	366,130	2	13	1	---
439L	Other coupler/draft system causes-loco	3	130,788	---	2	1	---
	SUBTOTAL	90	4,286,534	11	70	9	---
	TRUCK COMPONENTS						
440	Side bearing clearance improper	48	2,220,934	---	48	---	---
441	Side bearing(s) broken	5	126,644	---	5	---	---
442	Side bearing(s) missing	8	1,309,168	---	8	---	---
443	Truck bolster broken	10	402,395	---	8	2	---
444	Side frame broken	1	17,000	---	1	---	---
445	Truck (stiff/improper lateral)	44	2,074,246	---	44	---	---
446	Defective snubbing	1	32,426	---	1	---	---
449	Other truck component causes	9	740,193	---	9	---	---
	SUBTOTAL	126	6,923,206	---	124	2	---

TABLE 20. (CONTINUED)

	Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	SPEED						
550	Coupling speed excessive	32	649,117	5	17	10	—
553	Switch movement, excessive speed	11	211,176	2	7	2	—
554	Trn inside yrd limit, excess speed	15	623,463	5	7	3	—
555	Trn out yrd limit,clear blk,excess spd	10	6,221,334	—	10	—	—
559	Other Causes involving excessive speed	5	523,645	3	1	1	—
	SUBTOTAL	73	8,228,735	15	42	16	—
	SWITCHES, USE OF						
560	Spring switch not clear before reverse	7	179,997	—	7	—	—
561	Switch improperly lined	103	3,969,525	39	49	15	—
562	Switch not latched or locked	6	171,274	1	5	—	—
563	Switch previouly run through	45	709,324	3	39	3	—
569	Use of switches, other	8	1,145,300	2	5	1	—
	SUBTOTAL	169	6,175,620	45	105	19	—
	MISCELLANEOUS						
570	Buffing or slack action excessive	175	8,062,171	2	170	3	—
571	Failure to couple	6	129,730	4	2	—	—
572	Lateral drawbar force on curve excess	60	1,902,266	—	60	—	—
573	Moving car,loading ramp not positioned	1	7,000	—	—	1	—
574	Passed couplers	44	467,642	—	31	13	—
575	Retarder, improper manual operation	18	257,897	2	6	10	—
599	Other train operation/human factors	33	940,325	7	14	10	2
	SUBTOTAL	337	11,767,031	15	283	37	2
	GRAND TOTAL	1,100	54,963,882	332	588	178	2

TABLE 21. TRAIN ACCIDENTS RESULTING FROM MECHANICAL AND ELECTRICAL FAILURES BY SPECIFIC CAUSE

Cause	Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	BRAKES						
400	Air hose uncoupled or burst	17	2,533,930	—	17	—	—
402	Broken brake pipe or connections	3	532,550	—	3	—	—
403L	Obstructed brake pipe - locomotive	1	24,566	1	—	—	—
404	Other brake component failure, etc	3	54,734	1	2	—	—
405	Brk valve malf. (undesired emergency)	6	267,674	—	6	—	—
405L	Brk valve malf - loco (emergency appl)	1	180,700	—	1	—	—
406	Brake valve malfunctio/stuck brake/etc	5	150,300	—	2	3	—
406L	Brk valve malf./stuck brake/etc - loco	2	16,000	1	—	1	—
407	Rigging down or dragging	16	675,879	—	15	1	—
408	Hand brake/gear broken or defective	6	66,225	3	3	—	—
409	Hand brk linkage/connections failure	1	11,000	—	1	—	—
410	Other brake failure(not on locomotive)	5	121,459	—	4	1	—
410L	Other brake failure - locomotive	1	22,200	—	1	—	—
	SUBTOTAL	67	4,637,217	6	55	6	—
	TRAILER OR CONTAINER ON FLAT CAR						
411	Broken or defective tiedown equipment	6	112,600	—	1	5	—
413	Broken or defective trailer	1	30,000	—	1	—	—
	SUBTOTAL	7	142,600	—	2	5	—
	BODY						
420	Body bolster broken or defective	1	32,688	—	1	—	—
421	Center sill broken or bent	10	351,715	1	6	3	—
422	Draft sill broken or bent	5	120,514	—	2	3	—
423	Center plate broken or defective	7	858,490	—	7	—	—
424	Center plate disengaged from truck	17	766,888	—	15	2	—
425	Center pin broken or missing	1	277,000	—	1	—	—
426	Center plate attachment defective	4	523,017	—	4	—	—
427	Side sill broken	4	119,639	—	4	—	—
429	Other causes due to body (not loco)	3	39,977	—	1	2	—
	SUBTOTAL	52	3,109,928	1	41	10	—
	COUPLER AND DRAFT SYSTEM						
430	Knuckle broken or defective	20	1,430,245	2	16	2	—
431	Coupler mismatch, high/low	8	90,269	3	5	—	—
432	Coupler drawhead broken or defective	9	211,581	1	6	2	—
433	Coupler retainer pin/cross key missing	10	1,068,142	—	9	1	—
434	Draft gear/mechanism broken/defective	13	640,209	1	10	2	—
435	Coupler carrier broken or defective	3	110,900	1	2	—	—
435L	Coupler carrier broken/defective-loco	1	45,000	—	1	—	—
436	Coupler shank broken or defective	7	173,250	1	6	—	—
439	Other coupler and draft system causes	16	366,150	2	13	1	—
439L	Other coupler/draft system causes-loco	3	150,788	—	2	1	—
	SUBTOTAL	90	4,286,534	11	70	9	—
	TRUCK COMPONENTS						
440	Side bearing clearance improper	48	2,220,934	—	48	—	—
441	Side bearing(s) broken	5	126,644	—	5	—	—
442	Side bearing(s) missing	8	1,309,168	—	8	—	—
443	Truck bolster broken	10	402,393	—	8	2	—
444	Side frame broken	1	17,000	—	1	—	—
445	Truck (stiff/improper lateral)	44	2,074,246	—	44	—	—
446	Defective snubbing	1	32,426	—	1	—	—
449	Other truck component causes	9	740,193	—	9	—	—
	SUBTOTAL	126	6,923,206	—	124	2	—

TABLE 21. (CONTINUED)

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	AXLES AND JOURNAL BEARINGS						
450	Broken or bent between wheel seats	7	759,960	—	6	1	—
451	Journal (plain) failure - overheating	40	4,168,483	—	40	—	—
452	Journal (R. B.) failure - overheat	69	15,280,392	—	67	2	—
452L	Journal (R. B.) failure-overheat(loco)	2	37,300	—	2	—	—
453	Journal fractured, new cold break	6	302,430	—	6	—	—
453L	Journal fracture, new cold break(loco)	—	6,632	—	—	—	—
459	Axles and journal bearings (other)	4	213,800	—	4	—	—
459L	Axles/journal bearings (other) - loco	1	2,442,100	—	1	—	—
	SUBTOTAL	129	23,211,097	—	126	3	—
	WHEELS						
460	Broken flange	16	2,407,359	—	16	—	—
461	Broken rim	16	2,517,440	—	15	1	—
462	Broken plate	14	1,731,319	—	14	—	—
463	Broken hub	2	480,600	—	2	—	—
464	Worn flange	42	868,244	—	41	1	—
464L	Worn flange - locomotive	5	435,855	—	5	—	—
465	Worn thread	2	91,000	—	2	—	—
466	Damaged flange or tread, flat	5	342,135	—	5	—	—
466L	Damaged flange or tread, flat - loco	1	17,467	—	1	—	—
467	Loose wheel	16	2,001,175	—	16	—	—
468	Thermal crack, flange or tread	3	208,500	—	3	—	—
468L	Thermal crack, flange or tread - locom	1	28,500	—	1	—	—
469	Other causes involving wheels-not loco	12	1,292,292	1	11	—	—
	SUBTOTAL	135	12,442,086	1	132	2	—
	LOCOMOTIVES						
471L	Traction motor failure - locomotive	1	6,900	—	—	1	—
473L	Oil fire - locomotive	3	53,219	—	—	3	—
474L	Electrically caused fire - locomotive	11	335,400	—	1	10	—
479L	Other causes involving locomotives	14	270,284	—	7	7	—
	SUBTOTAL	29	665,803	—	8	21	—
	DOORS						
483	Box car door, other than plug, open	1	9,230	—	—	1	—
484	Box car door(not plug) attach defect	1	52,993	1	—	—	—
485	Bottom outlet car door open	2	33,950	—	2	—	—
486	Bottom outlet car door attach defect	1	71,264	—	1	—	—
489	Other causes involving doors	2	25,350	2	—	—	—
	SUBTOTAL	7	192,807	3	3	1	—
	GENERAL MECHANICAL AND ELECTRICAL FAILURES						
499	General mech/elect failures-not loco	11	348,949	1	5	5	—
499L	General mech/elect failures - loco	8	157,600	—	3	5	—
	SUBTOTAL	19	506,549	1	8	10	—
	GRAND TOTAL	661	36,137,827	23	569	69	—

TABLE 22. TRAIN ACCIDENTS RESULTING FROM DEFECTS IN TRACK, ROADBED, AND STRUCTURES

	Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	ROADBED DEFECTS						
101	Roadbed settled or soft	57	2,214,886	---	57	---	---
102	Washout/rain/slide/ice,etc. dmg to trk	18	12,512,419	---	18	---	---
109	Other roadbed defects	5	248,233	---	5	---	---
	SUBTOTAL	80	14,975,538	---	80	---	---
	TRACK GEOMETRY DEFECTS						
110	Wide gage (defect/missing crossties)	277	5,321,998	1	275	1	---
111	Wide gage (def/missing rail fasteners)	42	1,149,016	---	42	---	---
112	Wide gage (involving gage rods)	8	534,325	---	8	---	---
113	Wide gage due to worn rail	17	232,174	---	17	---	---
114	Track alignment irregular	38	1,672,226	---	36	2	---
115	Track alignment irregular (buckled)	71	7,865,878	---	70	1	---
116	Track profile improper	9	390,691	1	8	---	---
117	Superelevation incorrect	18	1,668,195	---	18	---	---
118	Superelevation runoff improper	4	349,277	---	4	---	---
119	Cross level irregular at joints	99	5,196,242	---	99	---	---
120	Cross level irregular not at joints	61	2,628,348	1	60	---	---
129	Other track geometry defects	18	2,218,783	---	18	---	---
	SUBTOTAL	662	29,227,153	3	655	4	---
	RAIL AND JOINT BAR DEFECTS						
130	Bolt hole crack or break	15	1,701,249	---	15	---	---
131	Broken base of rail	63	4,391,806	---	63	---	---
132	Broken weld, field	2	540,420	---	2	---	---
133	Broken weld, plant	4	708,155	---	4	---	---
134	Detail fracture fm shelling/head check	8	1,271,605	---	7	1	---
135	Engine burn fracture	1	46,500	---	1	---	---
136	Head/web sep.(outside joint bar limit)	42	2,382,271	---	42	---	---
137	Head/web sep.(within joint bar limits)	8	581,207	---	8	---	---
138	Horizontal split head	11	1,518,798	---	11	---	---
140	Rail defect with joint bar repair	2	135,690	---	2	---	---
141	Transverse/compound fissure	60	5,243,475	---	60	---	---
142	Vertical split head	57	1,982,800	1	56	---	---
143	Worn rail	20	793,056	---	20	---	---
144	Mismatched rail-head contour	8	156,510	---	8	---	---
145	Joint bar broken, compromise	4	850,700	---	4	---	---
147	Joint bar broken, noninsulated	9	2,326,560	---	9	---	---
148	Joint bolts, broken or missing	6	126,700	---	6	---	---
149	Other rail and joint bar defects	42	4,544,154	---	42	---	---
	SUBTOTAL	362	29,301,656	1	360	1	---

TABLE 22. (CONTINUED)

Cause	Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	FROGS, SWITCHES AND TRACK APPLIANCES						
160	Guard rail loose/broken/etc	5	43,506	—	5	—	—
161	Switch damaged/out of adjustment	71	2,017,147	—	70	1	—
162	Switch stand failure (hand oper.)	13	760,631	—	13	—	—
163	Switch connecting/oper. rod fail	10	641,692	—	10	—	—
164	Stock rail worn/broken/disconnect	8	236,035	—	8	—	—
165	Switch point worn or broken	176	3,224,632	—	175	—	—
166	Switch rod worn/bent/broken/etc	3	68,620	—	3	—	—
167	Frog, rigid, worn or broken	6	210,824	—	6	—	—
168	Frog, spring, worn or broken	3	46,236	—	3	—	—
169	Frog, self guarded, worn/broken	1	5,200	—	1	—	—
171	Derail, defective	—	14,500	—	—	—	—
173	Retarder worn/broken/malfunction	6	139,238	2	2	2	—
174	Spring/power switch mech. malfunction	12	172,593	1	11	—	—
175	Retarder yard skate defective	11	108,850	8	2	1	—
176	Switch out of adjust.(insuf rail anch)	5	198,032	—	5	—	—
179	Other frog/switches/track appl. causes	20	1,257,695	1	18	1	—
	SUBTOTAL	350	9,147,431	12	333	5	—
	OTHER WAY AND STRUCTURES						
180	Bridge misalignment or failure	2	941,450	—	2	—	—
181	Flangeway clogged	6	180,576	—	6	—	—
189	Other way and structure causes	9	215,571	—	1	8	—
	SUBTOTAL	17	1,337,597	—	9	8	—
	SIGNAL AND COMMUNICATION FAILURES						
200	Fix sig. improperly displayed (defect)	2	110,200	—	1	1	—
201	Radio communication equipment failure	5	61,892	—	3	2	—
202	Other communication equipment failure	2	43,546	—	1	1	—
209	Signal & communication failure N.O.C	1	10,000	1	—	—	—
	SUBTOTAL	10	225,638	1	5	4	—
	GRAND TOTAL	1,481	84,215,013	17	1,442	22	—

TABLE 23. TRAIN ACCIDENTS RESULTING FROM MISCELLANEOUS CAUSES BY SPECIFIC CAUSE

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	MISC CAUSES NOT OTHERWISE LISTED						
700	Collision with hwy user at grade xing	184	10,890,297	---	---	---	184
701	Emergency brk appl to avoid accident	14	2,357,347	---	13	---	1
702	Vandalism	75	3,819,125	8	50	17	---
703	Interference with RR oper.-not vandals	11	216,399	1	8	2	---
704	Load shifted	28	1,740,716	8	18	2	---
705	Load fall from car	7	252,264	---	2	5	---
706	Overloaded car	3	74,099	---	3	---	---
707	Improperly loaded car	18	300,618	1	16	1	---
708	Oversized load, misrouted	4	150,902	1	1	2	---
709	Object on or fouling track	52	5,113,925	1	32	19	---
710	Equipment on or fouling track	19	520,675	11	1	7	---
711	Trail/contain tiedown eqp-impr applied	5	105,400	1	---	4	---
712	Overload/improper loaded container etc	2	130,500	---	---	2	---
713	Interaction of lateral/vertical forces	102	4,094,051	---	100	2	---
714	Failure to control spd with hand brake	3	36,557	---	1	2	---
715	Snow, ice, or mud on track	15	998,599	---	15	---	---
716	Other acts of God	7	277,500	1	3	3	---
717	Fire, other than vandalism, involving	17	1,716,699	---	---	17	---
718	Hump retarder failed to sufficiently s	21	223,235	8	3	10	---
719	Objects such as lading chains or strap	3	215,600	1	2	---	---
799	Other miscellaneous causes	68	11,911,284	5	48	14	1
	SUBTOTAL	658	45,145,792	47	316	109	186
	GRAND TOTAL	658	45,145,792	47	316	109	186

TABLE 24. DAMAGES TO RAIL EQUIPMENT IN TRAIN ACCIDENTS BY CONSIST TYPE

Type of consist	....Collisions.... Number	Damage	...Derailments.... Number	Damage	.....Other..... Number	Damage	..Rail-Hwy X-ing.. Number	Damage	.....Total..... Number	Damage
Freight train	223	19,046,177	2,096	127,802,725	101	2,135,743	133	5,802,828	2,553	154,787,473
Passenger train	15	3,626,428	34	12,129,461	45	1,183,386	32	3,781,653	126	20,720,928
Mixed train	---	---	1	57,500	---	---	---	---	1	57,500
Work train	8	185,789	26	1,341,040	4	37,420	4	55,700	42	1,619,949
Single car	76	1,783,356	22	186,930	90	1,153,684	4	34,883	192	3,158,873
Cut of cars	140	1,183,600	100	1,737,602	70	969,489	2	38,000	312	3,948,691
Yard/switching	205	1,962,283	619	6,321,478	104	2,027,570	3	17,656	931	10,328,987
Light loco(s)	83	1,007,689	30	1,251,564	21	386,232	6	84,741	140	2,730,226
Unknown	---	---	1	15,300	---	---	---	---	1	15,300
Total	750	28,795,322	2,929	150,863,820	435	7,893,524	184	9,815,461	4,298	197,368,127

NOTE: "Number" represents the number of consists sustaining damage

4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

The information in this section represents only those accidents involving consists that contained at least one car carrying hazardous materials. The number of accidents, resulting damages, or casualties may or may not be attributable to the presence of these cars in the consists. While this does not represent a complete accounting of all hazardous materials releases, it does provide some insight into the extent of hazardous materials car involvement in train accidents.

TABLE 25. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

Type Of Accident	Consists Carrying	Cars: In Consist	Cars: Containing Hazmat	Cars: Damaged W/Hazmat	Cars: Releasing Hazmat	People Evacuated	Damage To Equipment
Derailment	347	24,867	2,273	521	89	3,596	24,245,982
Head on collision	3	215	48	---	---	---	18,200
Rear end collision	5	263	30	5	1	150	113,100
Side collision	29	1,767	223	23	1	---	949,956
Raking collision	6	226	30	2	1	---	131,925
Broken train collision	3	157	17	1	---	---	19,050
Rail-hwy crossing	20	1,420	103	12	2	700	2,645,050
RR grade crossing	---	---	---	---	---	---	---
Obstruction	5	330	11	1	1	---	38,970
Explosion-detonation	---	---	---	---	---	---	---
Fire or violent rupture	2	152	2	1	---	---	103,500
Other	23	987	89	15	5	---	270,257
TOTAL	443	30,384	2,826	581	100	4,446	28,535,990

TABLE 26. TRAIN ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

Year	Total Number Of Accidents	Accidents In Which A Hazmat Car Was Damaged Or Derailed	Accidents In Which There Was A Release Of Hazardous Materials	Accidents Which Resulted In An Evacuation
1979	926	480	105	44
1980	819	456	119	34
1981	586	353	77	27
1982	494	286	59	13
1983	422	240	52	16
1984	436	237	54	17

NOTE: An accident may appear in more than one column. For example, an accident that resulted in a release would also be included in the count of accidents that resulted in a hazardous materials car being damaged or destroyed.

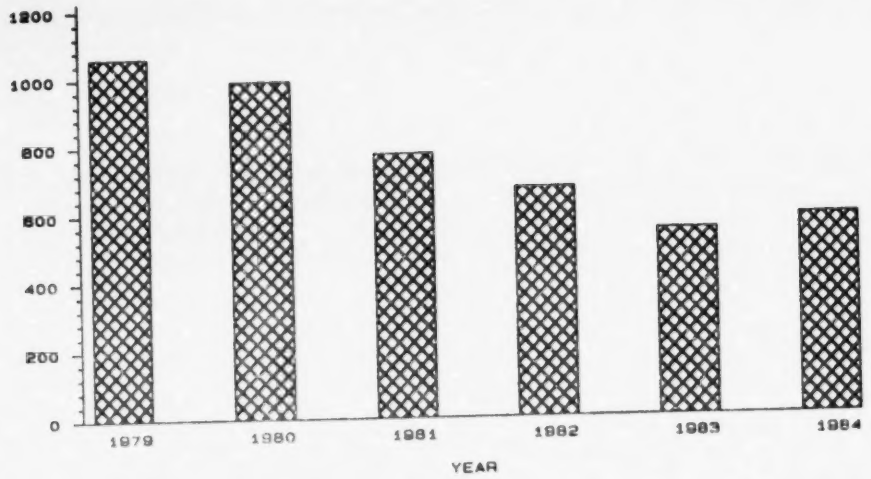


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED

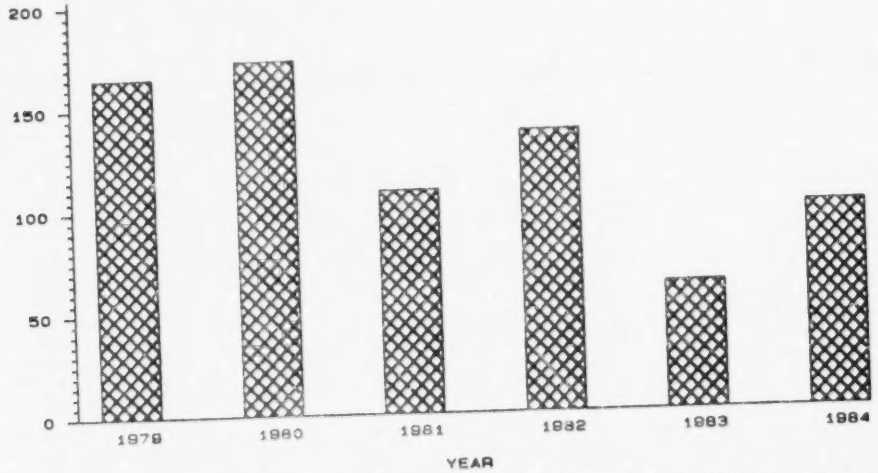


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIALS BY YEAR

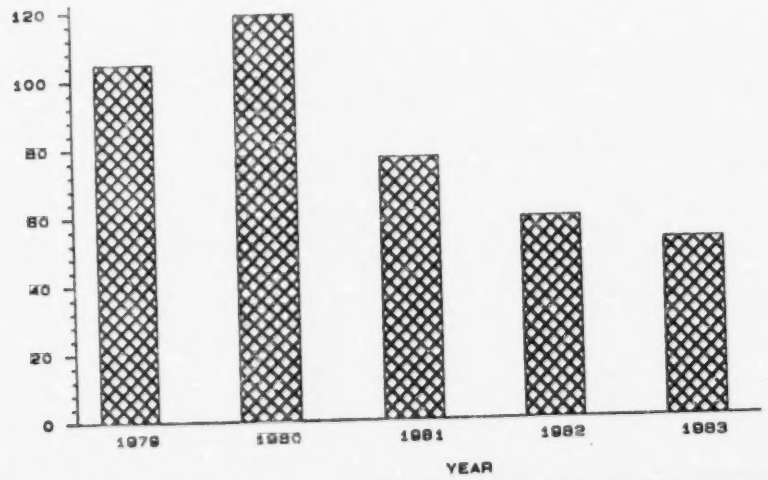


FIGURE 23A. TOTAL NUMBER OF ACCIDENTS IN WHICH THERE WAS A RELEASE OF HAZARDOUS MATERIALS

TABLE 27. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

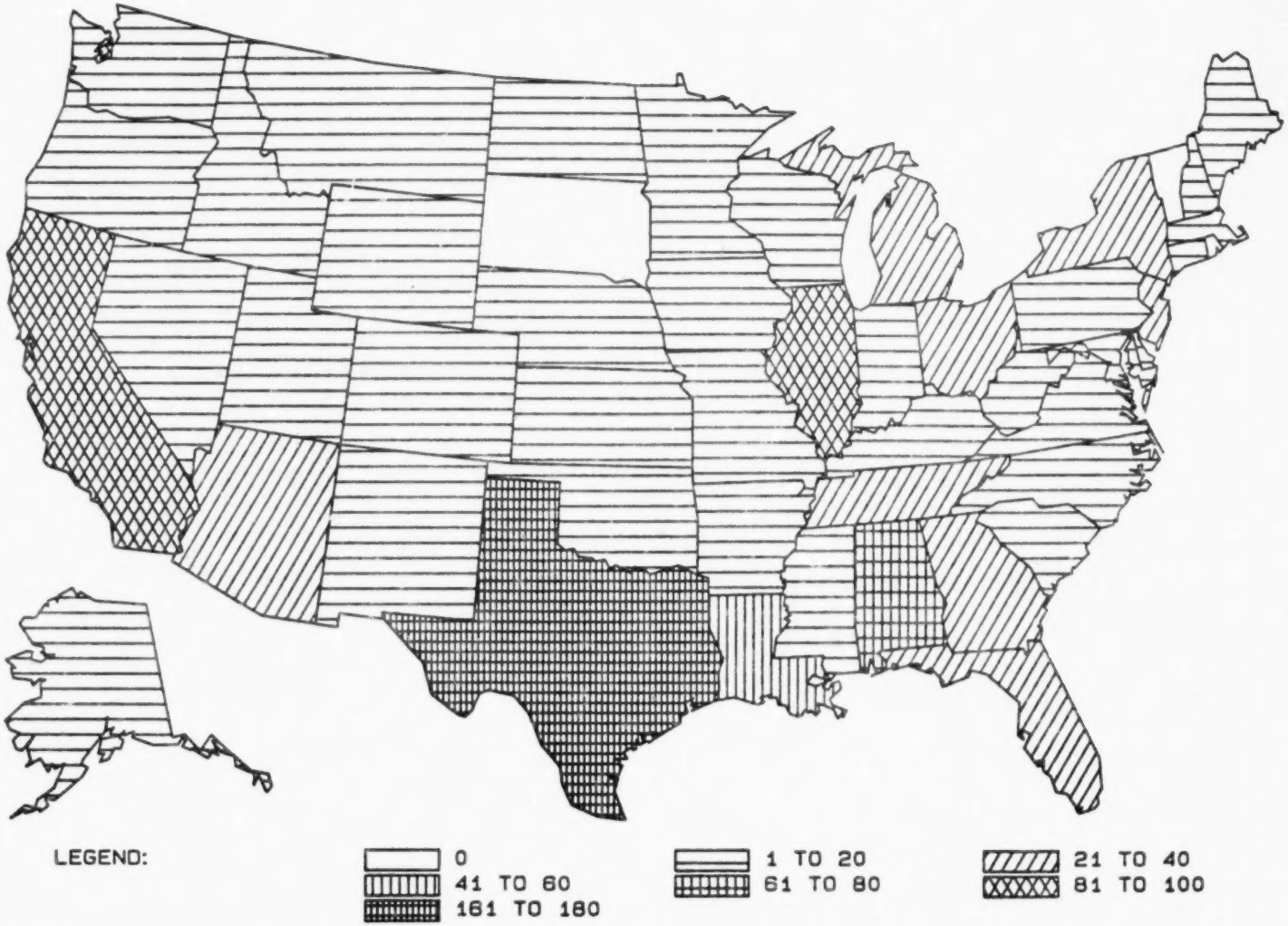
Cause	Consists Carrying	Cars In Consist	Cars Containing Hazmat	Cars Damaged W/Hazmat	Cars Releasing Hazmat	People Evacuated	Damage To Equipment
TRACK, ROADBED AND STRUCTURES							
Roadbed defects	10	590	108	48	28	---	3,200,635
Track geometry defects	82	5,095	770	147	8	370	2,686,535
Rail and joint bar defects	48	3,504	289	84	13	285	6,754,685
Frogs, switches and track appliances	33	1,883	147	30	5	250	370,679
Other way and structure	1	62	2	2	---	---	42,100
Signal and communication failures	---	---	---	---	---	---	---
Subtotal	174	11,134	1,316	311	54	905	13,054,634
MECHANICAL AND ELECTRICAL FAILURES							
Brakes	4	297	38	11	---	---	833,750
Trailer or container on flat car	1	90	3	---	---	---	---
Body	6	521	19	6	3	30	377,520
Coupler and draft system	13	1,304	58	13	6	---	516,983
Truck components	26	2,060	138	25	4	20	2,798,128
Axles and journal bearings	26	2,333	102	17	5	2,400	1,873,506
Wheels	12	780	117	26	5	66	1,493,979
Locomotives	1	43	26	---	---	---	31,700
Doors	1	105	7	---	---	---	33,125
General mechanical and electrical failures	2	126	10	---	---	---	24,000
Subtotal	92	7,659	518	98	23	2,516	7,982,691
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of	14	732	70	11	2	75	517,600
Employee physical condition	1	63	17	---	---	---	66,200
Flagging, fixed, hand and radio signals	4	323	23	5	1	150	92,550
Other rules and instructions	21	839	98	13	---	---	313,946
Speed	6	282	39	3	---	---	342,300
Switches, use of	23	1,624	148	30	1	---	398,257
Miscellaneous	46	3,049	233	52	12	100	1,436,659
Subtotal	115	6,912	648	114	16	325	3,167,512
MISCELLANEOUS FACTORS							
Collision with highway user at crossing site	18	1,239	99	9	2	700	2,529,950
Emergency brake application to avoid accident	3	372	9	---	---	---	61,800
Vandalism	7	441	57	6	---	---	300,200
Interference with rr operation, not vandals	---	---	---	---	---	---	---
Load shifted	4	415	9	6	3	---	198,250
Load fell from car	2	171	17	---	---	---	11,726
Overloaded car	---	---	---	---	---	---	---
Improperly loaded car	1	29	9	9	---	---	800
Oversized load, misrouted	1	24	1	1	---	---	40,000
Object on or fouling track	2	135	71	3	---	---	8,607
Equipment on or fouling track	3	169	16	1	---	---	11,920
Trail/contain tiedown eqp impr applied	---	---	---	---	---	---	---
Overload/improper loaded container etc	1	35	1	1	---	---	93,500
Interaction of lateral/vertical forces	11	945	31	5	---	---	505,450
Failure to control car spd with hand brk	---	---	---	---	---	---	---
Snow, ice, or mud on track	1	12	3	---	---	---	---
Other acts of God	---	---	---	---	---	---	---
Fire, not due to vandalism	---	---	---	---	---	---	---
Hump retarder failed to slow car	1	79	1	1	1	---	15,000
Switch fouled by lading chains, etc	1	75	4	2	1	---	132,600
Other causes	6	538	16	14	---	---	421,350
Subtotal	62	4,679	344	58	7	700	4,331,153
GRAND TOTAL	443	30,384	2,826	581	100	4,446	28,535,990

TABLE 28. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

State	Cars					People Evacuated	Damage To Equipment
	Consists Carrying	In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Alabama	9	812	31	12	1	125	441,071
Alaska	1	57	56	9	3	---	130,765
Arizona	8	539	58	29	4	300	472,950
Arkansas	12	769	52	7	1	---	1,697,954
California	25	1,392	106	29	---	---	1,385,704
Colorado	2	54	6	1	1	---	152,650
Connecticut	---	---	---	---	---	---	---
Delaware	1	13	1	1	---	---	7,000
Dist of Columbia	---	---	---	---	---	---	---
Florida	3	362	64	6	1	---	659,741
Georgia	9	874	64	41	30	20	3,099,041
Idaho	3	264	10	---	---	---	89,100
Illinois	41	2,554	259	20	3	---	2,226,471
Indiana	16	1,240	81	24	---	---	921,336
Iowa	5	321	25	13	1	50	419,342
Kansas	13	715	56	13	---	---	203,150
Kentucky	6	535	16	2	2	---	545,855
Louisiana	28	2,070	208	25	3	---	2,513,416
Maine	5	209	21	5	1	75	142,100
Maryland	3	200	17	6	---	30	56,990
Massachusetts	4	207	15	---	---	---	84,925
Michigan	10	466	68	7	1	---	99,390
Minnesota	11	858	30	4	---	---	71,475
Mississippi	5	206	31	8	2	---	61,154
Missouri	13	1,050	77	5	1	---	703,260
Montana	2	156	5	2	2	---	287,435
Nebraska	4	407	11	7	6	---	153,725
Nevada	---	---	---	---	---	---	---
New Hampshire	3	62	6	---	---	---	124,000
New Jersey	6	296	17	17	---	---	81,500
New Mexico	5	432	18	4	2	---	234,300
New York	22	1,587	160	45	4	66	893,275
North Carolina	13	1,128	33	15	9	2,480	1,480,608
North Dakota	---	---	---	---	---	---	---
Ohio	13	1,095	58	11	3	---	178,968
Oklahoma	7	438	35	6	---	---	1,418,465
Oregon	2	180	9	1	---	20	34,200
Pennsylvania	28	1,483	366	56	3	150	494,366
Rhode Island	---	---	---	---	---	---	---
South Carolina	3	265	10	7	1	---	83,150
South Dakota	---	---	---	---	---	---	---
Tennessee	10	604	35	14	2	430	821,924
Texas	63	4,467	428	94	9	700	4,005,375
Utah	1	89	1	1	---	---	759,625
Vermont	1	69	1	1	---	---	76,000
Virginia	7	642	24	8	3	---	189,975
Washington	2	40	24	5	---	---	87,100
West Virginia	7	576	19	14	---	---	346,995
Wisconsin	10	519	13	5	1	---	592,964
Wyoming	1	82	1	1	---	---	7,200
Unknown	---	---	---	---	---	---	---
TOTAL	443	30,384	2,826	581	100	4,446	28,535,990

TABLE 29. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD

Railroad	Consists Carrying	Cars In Consist	Cars Containing Hazmat	Cars Damaged W/Hazmat	Cars Releasing Hazmat	People Evacuated	Damage To Equipment
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	1	100	8	1	---	---	15,050
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.	33	2,042	172	27	3	---	2,192,795
Baltimore And Ohio Railroad Co.	10	676	31	17	1	---	404,200
Bessemer And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Boston And Maine Corporation	7	355	16	1	---	---	214,750
Burlington Northern Incorporated	8	660	16	6	4	---	261,750
Central Of Georgia Railroad Company	1	88	3	---	---	---	5,000
Chesapeake And Ohio Railway Company	8	491	139	14	2	---	247,000
Chicago And North Western	2	118	7	4	1	50	275,292
Chicago, Milw, St. Paul And Pacific	12	709	31	19	---	---	1,288,365
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---
Consolidated Rail Corporation	34	2,235	166	81	7	180	430,010
Delaware And Hudson Railway	18	1,467	126	17	2	66	927,625
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---
Duluth, Missabe And Iron Range Rwy Co.	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	2	24	6	3	---	---	12,951
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	3	190	20	3	1	---	209,435
Illinois Central Gulf Railroad Co.	12	735	73	21	3	300	295,699
Kansas City Southern Railway Co.	10	713	71	2	---	---	968,620
Louisiana And Arkansas Rwy Company	8	620	42	1	---	---	94,980
Missouri Pacific Railroad Co.	40	2,870	323	52	3	100	1,580,688
Missouri-Kansas-Texas Railroad Co.	3	108	3	2	---	---	26,400
Norfolk And Western Railway Co.	23	2,009	89	4	---	---	1,141,108
Pittsburg And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Seaboard System Railroad	46	4,356	188	49	20	2,655	3,444,785
Soo Line Railroad Company	18	1,263	48	4	1	---	96,345
Southern Pacific Transportation Co.	68	4,685	397	108	11	320	5,019,536
Southern Railway Company	2	80	3	---	---	---	10,600
St. Louis Southwestern Railway Co.	10	735	27	9	2	700	2,637,682
Union Pacific Railroad Co.	13	983	46	19	7	---	1,297,589
Total Class I Railroads	392	28,312	2,051	464	68	4,371	25,098,255
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine	---	---	---	---	---	---	---
Carolina And Northwestern Rwy Company	---	---	---	---	---	---	---
Central Vermont Railway Inc.	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co.	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co.	---	---	---	---	---	---	---
Georgia Southern And Florida Railway	1	51	48	34	26	---	2,174,700
Green Bay And Western Railroad	---	---	---	---	---	---	---
Maine Central Railroad Company	4	198	10	3	1	75	137,100
Michigan Interstate Railroad	---	---	---	---	---	---	---
Monongahela Railway	---	---	---	---	---	---	---
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Oklahoma, Kansas Texas Railroad	---	---	---	---	---	---	---
Richmond, Fredericksburg And Potomac	1	2	2	2	---	---	1,400
Spokane International Railroad	---	---	---	---	---	---	---
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	---	---	---	---	---	---	---
Total Class II Railroads	6	251	60	39	27	75	2,313,200
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	392	28,312	2,051	464	68	4,371	25,098,255
Class II Railroads	6	251	60	39	27	75	2,313,200
Class III Railroads	45	1,821	715	78	5	---	1,124,535
Total All Railroads	443	30,384	2,826	581	100	4,446	28,535,990



Note:
Any unintentional release of hazardous material that occurred in connection with its transport by rail is reportable to the Materials Transportation Bureau. This includes packaging failures to inner containers, such as steel drums, boxes, cylinders, etc., where the material did not escape from the railroad car.

FIGURE 24. ALL HAZARDOUS MATERIAL RELEASES, MATERIALS TRANSPORTATION BUREAU

TABLE 30. TRAIN ACCIDENTS BY STATE AND TYPE

State	....Collisions....		...Derailments....		.....Other.....		..Rail-Hwy X-ing..		.....Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama	9	110,726	30	3,011,512	1	63,000	7	172,301	47	3,357,539
Alaska	—	—	9	754,365	—	—	—	—	9	754,365
Arizona	6	88,400	44	3,218,258	3	49,070	—	—	53	3,355,728
Arkansas	6	987,083	59	5,010,829	4	127,163	5	70,500	74	6,195,575
California	16	794,633	207	10,437,234	21	524,734	11	100,432	255	11,857,033
Colorado	5	3,864,034	33	3,317,713	3	69,500	2	289,623	43	7,540,870
Connecticut	1	216,375	8	409,685	9	211,399	2	28,369	20	865,828
Delaware	—	—	4	89,160	1	18,700	—	—	5	107,860
Dist of Columbia	—	—	2	49,238	—	—	—	—	2	49,238
Florida	5	91,444	26	2,809,033	3	35,663	5	124,250	39	3,060,390
Georgia	6	60,800	52	7,010,429	8	115,492	9	201,050	75	7,387,771
Idaho	6	123,083	14	1,275,508	1	84,000	1	6,050	22	1,488,641
Illinois	39	962,862	189	6,911,329	54	1,150,343	6	1,027,212	288	10,051,746
Indiana	10	191,760	90	4,759,643	12	177,950	8	448,509	120	5,577,862
Iowa	18	307,150	131	5,650,369	6	122,829	3	64,000	158	6,144,348
Kansas	14	1,029,634	84	5,740,813	8	148,351	1	59,000	107	6,977,798
Kentucky	11	254,700	60	4,582,373	4	83,250	4	116,390	79	5,036,713
Louisiana	10	187,025	54	4,267,692	9	123,492	6	69,150	79	4,647,359
Maine	1	45,000	19	653,414	2	41,202	3	82,087	25	821,703
Maryland	6	65,676	21	565,305	3	20,156	—	—	30	651,137
Massachusetts	4	420,472	21	1,020,859	13	1,291,200	1	12,000	39	2,744,531
Michigan	14	251,173	39	633,705	21	568,034	3	59,500	77	1,512,412
Minnesota	16	4,136,631	161	7,025,645	16	199,483	2	30,300	195	11,392,059
Mississippi	4	91,460	32	2,404,241	1	24,600	1	14,000	38	2,534,301
Missouri	23	1,167,020	134	6,533,416	6	135,760	2	56,001	165	7,892,197
Montana	1	34,000	43	5,269,577	6	145,650	2	2,991,400	52	8,440,627
Nebraska	18	900,603	102	10,973,770	11	113,151	7	259,570	138	12,247,094
Nevada	1	25,771	10	2,399,583	4	113,203	—	—	15	2,538,557
New Hampshire	3	47,985	7	589,789	—	—	—	—	10	637,774
New Jersey	5	61,026	24	576,065	7	142,200	2	19,700	38	798,991
New Mexico	3	126,436	32	5,406,238	5	100,600	1	39,465	41	5,672,739
New York	18	3,728,165	114	6,116,526	21	755,562	7	137,858	160	10,738,111
North Carolina	4	185,454	29	4,850,861	2	32,000	7	80,925	42	5,149,240
North Dakota	5	217,409	37	3,952,631	2	12,200	—	—	44	4,182,240
Ohio	16	674,360	112	3,833,858	16	284,767	9	91,610	153	4,884,595
Oklahoma	3	43,173	43	3,467,646	4	71,500	8	453,640	58	4,035,959
Oregon	5	299,118	48	3,098,327	2	17,720	3	191,356	58	3,606,521
Pennsylvania	14	711,386	112	7,002,785	19	310,188	9	202,176	154	8,226,535
Rhode Island	—	—	—	—	1	4,800	—	—	1	4,800
South Carolina	2	22,050	12	1,181,130	—	—	7	511,105	21	1,714,285
South Dakota	2	1,020,550	24	915,263	2	42,091	—	—	28	1,977,904
Tennessee	5	61,915	35	2,219,449	7	195,250	4	36,705	51	2,513,319
Texas	40	4,306,560	313	13,542,850	30	552,859	25	2,585,414	408	20,987,683
Utah	1	22,000	13	1,350,151	2	99,531	1	55,167	17	1,526,849
Vermont	—	—	9	7,382,570	1	—	1	8,991	11	7,391,561
Virginia	12	207,318	45	1,703,702	15	324,028	3	20,234	75	2,255,282
Washington	3	75,091	43	2,822,100	1	20,000	3	145,456	50	3,062,647
West Virginia	6	92,275	74	3,530,291	2	42,000	1	7,000	83	3,671,566
Wisconsin	10	99,236	59	3,310,600	5	31,650	6	207,801	80	3,649,287
Wyoming	12	1,775,997	52	6,627,647	4	139,700	—	—	68	8,543,344
Unknown	—	—	—	—	—	—	—	—	—	—
TOTAL	419	30,185,019	2,915	190,265,177	378	8,936,021	188	11,076,297	3,900	240,462,514

TABLE 31. TRAIN ACCIDENTS BY STATE AND CAUSE

State	Track		Equipment		Human Factors		Miscellaneous		Total	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama	14	368,750	13	2,445,912	12	342,026	8	200,851	47	3,357,539
Alaska	5	144,100	4	610,265	---	---	---	---	9	754,365
Arizona	23	1,609,430	6	189,570	18	1,413,783	6	142,945	53	3,355,728
Arkansas	30	2,706,719	18	989,858	18	1,222,343	8	1,276,655	74	6,195,575
California	100	4,500,559	54	3,303,424	58	2,099,222	43	1,953,828	255	11,857,033
Colorado	13	1,703,347	10	1,151,299	12	4,193,764	8	492,460	43	7,540,870
Connecticut	11	353,669	1	38,200	3	273,221	5	200,738	20	865,828
Delaware	2	17,310	1	5,650	2	36,700	---	48,200	5	107,860
Dist of Columbia	1	34,000	1	15,238	---	---	---	---	2	49,238
Florida	8	799,315	3	1,063,477	19	867,148	9	330,450	39	3,060,390
Georgia	22	5,076,231	13	1,270,700	25	621,665	15	419,175	75	7,387,771
Idaho	3	23,188	2	725,173	10	465,671	7	274,609	22	1,488,641
Illinois	93	3,559,708	31	1,294,779	111	2,004,546	53	3,192,713	288	10,051,746
Indiana	44	1,886,716	15	1,274,919	37	773,651	24	1,642,576	120	5,577,862
Iowa	84	3,588,426	18	1,466,635	34	559,471	22	529,816	158	6,144,348
Kansas	51	3,283,525	17	1,150,032	30	920,967	9	1,623,274	107	6,977,798
Kentucky	21	1,130,890	20	1,036,074	25	2,066,289	13	803,460	79	5,036,713
Louisiana	33	2,698,813	12	1,044,609	20	587,137	14	316,800	79	4,647,359
Maine	5	205,682	4	57,989	6	124,081	10	433,951	25	821,703
Maryland	9	125,954	5	85,350	13	162,983	3	276,850	30	651,137
Massachusetts	10	126,600	5	618,740	13	784,391	11	1,214,800	39	2,744,531
Michigan	15	184,234	13	156,308	35	896,382	14	275,488	77	1,512,412
Minnesota	94	4,218,022	33	2,129,161	45	4,737,030	23	307,846	195	11,392,059
Mississippi	21	740,921	3	162,340	8	648,020	6	983,020	38	2,534,301
Missouri	75	3,349,721	17	1,876,768	55	1,669,371	18	996,337	165	7,892,197
Montana	20	2,039,684	11	1,470,500	10	1,506,093	11	3,424,350	52	8,440,627
Nebraska	55	7,147,485	24	2,594,092	45	1,448,076	14	1,057,441	138	12,247,094
Nevada	2	1,468,200	5	82,831	5	63,209	3	924,317	15	2,538,557
New Hampshire	6	551,789	---	---	3	47,985	1	38,000	10	637,774
New Jersey	14	280,500	2	47,900	9	95,591	13	375,000	38	798,991
New Mexico	10	432,471	16	2,219,120	8	2,059,575	7	961,573	41	5,672,739
New York	45	1,005,704	26	1,354,055	55	3,617,210	34	4,761,142	160	10,738,111
North Carolina	10	541,368	8	3,899,892	14	568,655	10	139,325	42	5,149,240
North Dakota	23	1,179,968	10	2,460,085	6	380,109	5	162,078	44	4,182,240
Ohio	41	794,748	29	1,627,828	51	1,554,335	32	907,684	153	4,884,595
Oklahoma	28	1,246,751	10	2,087,008	4	87,377	16	614,823	58	4,035,959
Oregon	21	818,313	11	659,905	10	470,182	16	1,658,121	58	3,606,521
Pennsylvania	63	2,482,567	28	1,587,038	34	1,422,017	29	2,734,913	154	8,226,535
Rhode Island	---	---	---	---	---	---	1	4,800	1	4,800
South Carolina	4	882,697	3	212,883	7	107,600	7	511,105	21	1,714,285
South Dakota	21	840,008	3	60,346	3	1,055,550	1	22,000	28	1,977,904
Tennessee	20	1,830,428	4	180,100	14	227,677	13	275,114	51	2,513,319
Texas	174	4,919,119	72	6,001,693	103	5,704,014	59	4,362,857	408	20,987,683
Utah	5	132,699	6	1,210,050	4	106,933	2	77,167	17	1,526,849
Vermont	5	7,208,400	1	11,152	1	---	4	172,009	11	7,391,561
Virginia	18	358,051	18	422,852	28	462,319	11	1,012,060	75	2,255,282
Washington	22	676,083	10	768,834	11	623,662	7	994,068	50	3,062,647
West Virginia	43	1,157,878	14	619,875	11	1,311,092	15	582,721	83	3,671,566
Wisconsin	31	1,674,359	14	352,375	22	1,269,143	13	353,410	80	3,649,287
Wyoming	13	2,109,915	17	2,044,943	33	3,305,616	5	1,082,872	68	8,543,344
Unknown	---	---	---	---	---	---	---	---	---	---
TOTAL	1,481	84,215,013	661	56,137,827	1,100	54,963,882	658	45,145,792	3,900	240,462,514

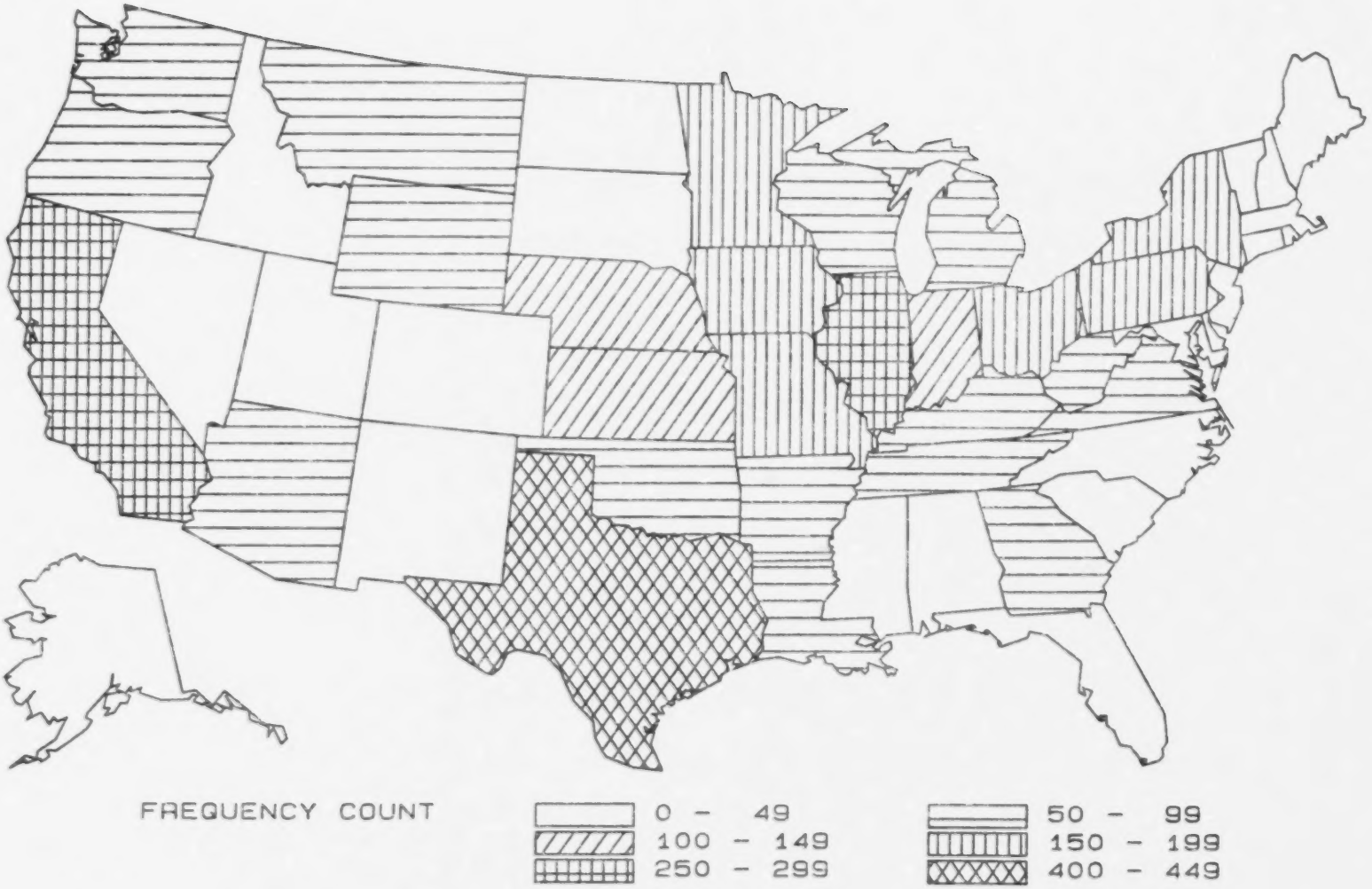


FIGURE 25. TRAIN ACCIDENTS BY STATE

TABLE 32. TRAIN ACCIDENTS BY STATE AND MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama	6	4	6	6	4	4	2	2	2	5	5	1	47
Alaska	—	1	—	—	2	—	1	1	1	1	—	2	9
Arizona	4	6	4	2	5	3	5	6	6	1	2	9	53
Arkansas	10	5	10	8	2	7	8	5	3	6	5	5	74
California	17	25	14	24	21	25	22	22	22	20	22	21	255
Colorado	1	4	4	4	3	5	3	4	4	8	—	3	43
Connecticut	3	—	2	—	—	7	2	1	2	1	2	—	20
Delaware	1	—	1	—	—	—	1	—	—	1	—	1	5
Dist of Columbia	—	—	—	1	—	—	—	—	—	—	—	1	2
Florida	2	6	3	4	6	2	2	3	—	3	4	4	39
Georgia	14	6	12	1	4	5	10	6	4	5	3	5	75
Idaho	1	4	3	1	5	3	2	—	—	—	1	2	22
Illinois	24	31	39	34	21	17	26	19	27	18	17	15	288
Indiana	7	12	11	10	10	12	13	5	10	7	13	8	120
Iowa	15	20	23	15	16	11	10	14	8	8	7	11	158
Kansas	6	7	9	8	7	8	15	11	15	5	6	10	107
Kentucky	4	6	8	7	5	12	12	6	6	3	3	7	79
Louisiana	6	11	6	5	8	6	4	4	13	4	8	4	79
Maine	1	1	2	3	1	2	3	1	3	4	1	3	25
Maryland	—	4	5	3	2	4	3	—	1	2	4	2	30
Massachusetts	2	—	3	7	4	3	3	5	3	5	1	3	39
Michigan	8	10	4	6	8	8	5	2	3	7	11	5	77
Minnesota	14	10	17	14	18	28	10	20	19	18	13	14	195
Mississippi	4	1	3	3	2	6	1	5	2	6	2	3	38
Missouri	11	21	23	10	8	18	16	20	12	9	7	10	165
Montana	5	3	4	5	2	6	7	6	2	7	3	2	52
Nebraska	12	9	14	14	12	15	18	10	16	6	4	8	138
Nevada	4	1	1	3	1	1	—	1	2	—	1	—	15
New Hampshire	2	1	—	1	—	1	1	—	—	2	—	2	10
New Jersey	4	3	4	2	4	4	1	5	3	1	5	2	38
New Mexico	3	5	3	5	3	3	8	2	—	4	3	2	41
New York	14	12	17	14	11	14	12	16	11	9	15	15	160
North Carolina	5	2	4	4	2	1	3	1	7	6	4	3	42
North Dakota	2	4	3	1	6	5	2	8	4	5	3	1	44
Ohio	12	15	15	13	15	8	14	14	11	11	16	9	153
Oklahoma	8	5	6	4	3	10	4	4	3	5	2	4	58
Oregon	—	3	11	5	5	5	5	4	3	9	3	5	58
Pennsylvania	14	25	13	9	14	13	11	16	11	8	7	13	154
Rhode Island	—	—	—	—	—	—	—	—	1	—	—	—	1
South Carolina	—	3	1	1	2	1	5	3	—	2	2	1	21
South Dakota	1	1	—	4	2	6	4	4	2	2	2	—	28
Tennessee	9	2	6	4	6	4	3	4	2	6	4	1	51
Texas	22	33	34	24	39	38	41	34	42	42	24	35	408
Utah	2	1	—	3	—	1	4	—	2	1	1	2	17
Vermont	—	1	1	—	1	3	2	—	1	—	1	1	11
Virginia	6	9	8	9	10	5	11	5	5	—	2	5	75
Washington	6	4	5	12	4	3	5	2	1	—	2	6	50
West Virginia	10	4	12	7	8	7	6	9	4	3	7	6	83
Wisconsin	11	7	4	10	10	7	4	8	6	3	6	4	80
Wyoming	10	5	2	9	9	5	8	2	3	7	2	4	68
Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	323	353	380	339	331	362	358	320	310	286	258	280	3,900

TABLE 33. CASUALTIES BY STATE AND CLASS OF ACCIDENT/INCIDENT

State	Train Accidents			Train Incidents			Nontrain Incidents			Total		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
Alabama	1	6	—	13	180	—	1	452	4	15	638	4
Alaska	—	—	—	5	17	—	—	40	—	5	57	—
Arizona	—	2	—	15	64	—	—	161	2	15	227	2
Arkansas	1	8	—	26	204	1	—	424	9	27	636	10
California	—	23	—	88	400	10	1	1,567	33	89	1,990	43
Colorado	8	3	—	13	112	3	—	266	2	21	381	5
Connecticut	1	8	—	3	38	1	—	246	4	4	292	5
Delaware	—	2	—	2	25	—	—	175	5	2	202	5
Dist of Columbia	—	—	—	—	19	—	—	66	—	—	85	—
Florida	2	8	—	49	256	—	—	555	2	51	819	2
Georgia	1	5	—	21	294	1	2	791	12	24	1,090	13
Idaho	—	4	—	10	54	—	—	186	—	10	244	—
Illinois	2	33	—	89	494	2	7	2,159	15	98	2,686	17
Indiana	2	21	—	32	275	1	—	895	12	34	1,191	13
Iowa	1	12	—	13	141	—	1	415	10	15	568	10
Kansas	—	12	—	24	181	1	3	582	4	27	775	5
Kentucky	—	6	—	11	195	1	—	876	5	11	1,077	6
Louisiana	1	6	—	38	266	3	7	450	4	46	722	7
Maine	—	5	—	3	25	1	—	117	5	3	147	6
Maryland	—	3	—	13	121	—	—	548	2	13	672	2
Massachusetts	1	6	—	9	56	1	—	378	2	10	440	3
Michigan	—	9	—	28	325	2	—	1,065	11	28	1,399	13
Minnesota	3	12	—	19	106	1	—	549	8	22	667	9
Mississippi	1	5	—	25	144	—	—	212	—	26	361	—
Missouri	1	9	—	30	199	1	1	857	9	32	1,065	10
Montana	2	38	1	8	52	—	—	232	4	10	322	5
Nebraska	2	15	—	13	127	3	1	673	23	16	815	26
Nevada	—	—	—	2	24	—	1	78	3	3	102	3
New Hampshire	—	1	—	1	11	—	—	20	—	1	32	—
New Jersey	—	5	—	30	120	7	13	901	71	43	1,026	78
New Mexico	—	2	2	6	49	1	—	195	1	6	246	4
New York	2	42	4	43	340	2	9	2,658	103	54	3,040	109
North Carolina	1	25	—	36	176	—	3	355	2	40	556	2
North Dakota	—	3	—	8	28	—	—	125	—	8	156	—
Ohio	3	8	—	66	306	8	3	1,602	15	72	2,116	23
Oklahoma	3	5	—	27	141	1	—	199	1	30	345	2
Oregon	—	6	—	10	109	—	—	304	3	10	419	3
Pennsylvania	2	358	2	38	309	3	4	2,032	15	44	2,699	20
Rhode Island	—	—	—	1	8	—	—	21	—	1	29	—
South Carolina	3	18	—	29	150	—	1	244	4	33	412	4
South Dakota	—	4	—	1	24	—	—	52	—	1	80	—
Tennessee	2	6	—	12	140	—	—	660	2	14	806	2
Texas	7	46	—	128	828	20	5	1,649	27	140	2,523	47
Utah	—	2	—	2	78	1	—	187	—	2	267	1
Vermont	5	47	—	1	12	—	—	56	1	6	115	1
Virginia	2	7	—	19	256	2	1	1,038	12	22	1,301	14
Washington	—	7	—	22	121	5	—	320	5	22	448	10
West Virginia	—	7	—	13	155	—	2	605	5	15	767	5
Wisconsin	1	12	—	20	145	—	—	408	8	21	565	8
Wyoming	2	12	—	3	62	—	—	320	1	5	394	1
Unknown	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	63	884	9	1,118	8,162	83	66	28,966	466	1,247	38,012	558

TABLE 34. TRAIN ACCIDENT AND TRAIN INCIDENT FATALITIES TO TRESPASSERS AND NON-TRESPASSERS BY STATE

State	Trespassers				Nontrespassers				Total			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama	---	6	1	7	1	5	---	6	1	11	1	13
Alaska	---	---	---	---	---	3	---	3	---	3	---	3
Arizona	---	9	2	11	---	2	1	3	---	11	3	14
Arkansas	1	3	2	6	---	13	7	20	1	16	9	26
California	8	49	5	62	2	17	4	23	10	66	9	85
Colorado	---	1	---	1	---	12	---	12	---	13	---	13
Connecticut	---	3	1	4	---	---	---	---	---	3	1	4
Delaware	---	1	---	1	---	1	---	1	---	2	---	2
Dist of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida	---	38	---	38	3	10	---	13	3	48	---	51
Georgia	---	13	1	14	---	8	---	8	---	21	1	22
Idaho	---	3	---	3	2	5	---	7	2	8	---	10
Illinois	3	33	9	45	5	24	13	42	8	57	22	87
Indiana	---	7	3	10	1	21	2	24	1	28	5	34
Iowa	---	3	1	4	---	5	4	9	---	8	5	13
Kansas	---	4	---	4	3	17	---	20	3	21	---	24
Kentucky	---	5	---	5	---	5	---	5	---	10	---	10
Louisiana	---	12	4	16	2	13	7	22	2	25	11	38
Maine	---	1	---	1	---	2	---	2	---	3	---	3
Maryland	2	7	---	9	---	4	---	4	2	11	---	13
Massachusetts	1	7	2	10	---	---	---	---	1	7	2	10
Michigan	1	2	---	3	2	23	---	25	3	25	---	28
Minnesota	---	4	3	7	---	7	5	12	---	11	8	19
Mississippi	---	1	2	3	1	14	7	22	1	15	9	25
Missouri	---	6	---	6	1	19	5	25	1	25	5	31
Montana	1	4	---	5	---	3	---	3	1	7	---	8
Nebraska	---	---	---	---	2	12	---	14	2	12	---	14
Nevada	1	1	---	2	---	---	---	---	1	1	---	2
New Hampshire	---	---	---	---	---	1	---	1	---	1	---	1
New Jersey	3	17	2	22	---	4	---	4	3	21	2	26
New Mexico	---	3	1	4	---	---	2	2	---	3	3	6
New York	6	22	8	36	---	6	---	6	6	28	8	42
North Carolina	---	20	---	20	1	15	---	16	1	35	---	36
North Dakota	---	6	---	6	---	2	---	2	---	8	---	8
Ohio	1	23	2	26	4	34	4	42	5	57	6	68
Oklahoma	---	7	---	7	---	14	8	22	---	21	8	29
Oregon	1	3	---	4	---	4	---	4	1	7	---	8
Pennsylvania	5	23	1	29	---	5	2	7	5	28	3	36
Rhode Island	---	1	---	1	---	---	---	---	---	1	---	1
South Carolina	---	17	---	17	---	14	---	14	---	31	---	31
South Dakota	---	---	---	---	---	1	---	1	---	1	---	1
Tennessee	---	7	2	9	2	3	---	5	2	10	2	14
Texas	5	30	16	51	2	52	27	81	7	82	43	132
Utah	---	---	---	---	---	2	---	2	---	2	---	2
Vermont	---	---	---	---	---	1	---	1	---	1	---	1
Virginia	---	16	---	16	---	4	---	4	---	20	---	20
Washington	1	12	---	13	1	8	---	9	2	20	---	22
West Virginia	2	4	3	9	---	2	---	2	2	6	3	11
Wisconsin	---	6	1	7	1	9	4	14	1	15	5	21
Wyoming	---	3	---	3	---	---	---	---	---	3	---	3
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	42	443	72	557	36	426	102	564	78	869	174	1,121

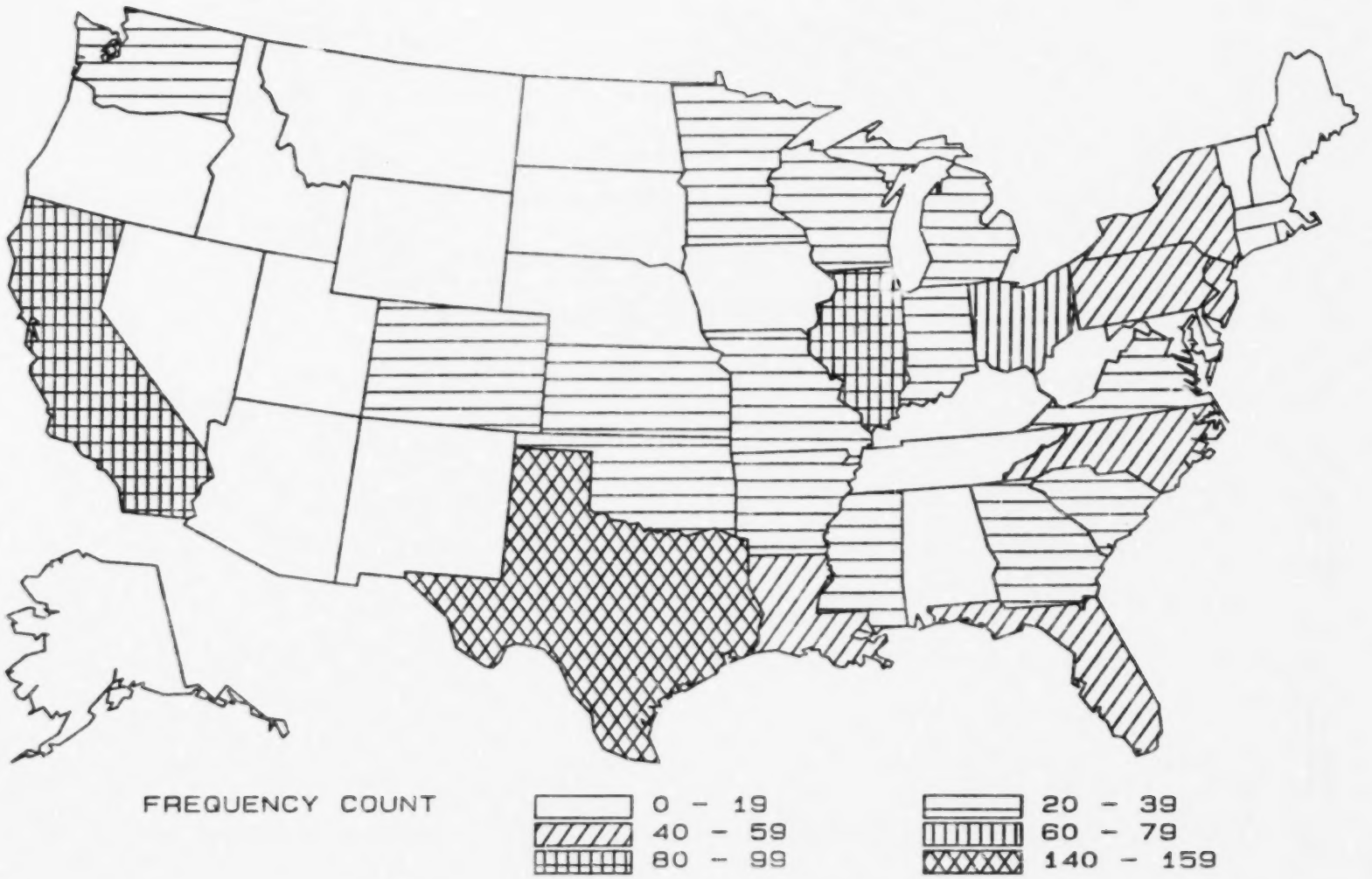


FIGURE 26. FATALITIES BY STATE

TABLE 35. TRAIN ACCIDENT AND TRAIN INCIDENT INJURIES TO TRESPASSERS AND NON-TRESPASSERS BY STATE

State	Trespassers				Nontrespassers				Total			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama	1	10	—	11	5	54	7	66	6	64	7	77
Alaska	—	—	—	—	—	6	1	7	—	6	1	7
Arizona	—	12	2	14	—	1	3	4	—	13	5	18
Arkansas	—	5	3	8	7	51	35	93	7	56	38	101
California	10	71	6	87	8	46	29	83	18	117	35	170
Colorado	—	7	1	8	4	23	6	33	4	30	7	41
Connecticut	—	3	1	4	—	1	—	1	—	4	1	5
Delaware	—	—	—	—	—	3	1	4	—	3	1	4
Dist of Columbia	—	1	—	1	—	—	—	—	—	1	—	1
Florida	5	36	—	41	1	46	—	47	6	82	—	88
Georgia	1	15	—	16	3	54	—	57	4	69	—	73
Idaho	—	—	—	—	6	12	—	18	6	12	—	18
Illinois	5	25	14	44	11	85	62	158	16	110	76	202
Indiana	—	25	6	31	13	106	15	134	13	131	21	165
Iowa	—	4	5	9	—	13	33	46	—	17	38	55
Kansas	—	3	—	3	7	36	26	69	7	39	26	72
Kentucky	2	17	—	19	5	40	10	55	7	57	10	74
Louisiana	1	11	6	18	2	76	55	133	3	87	61	151
Maine	—	2	—	2	—	9	—	9	—	11	—	11
Maryland	2	10	1	13	—	5	8	13	2	15	9	26
Massachusetts	1	5	2	8	1	12	1	14	2	17	3	22
Michigan	6	7	3	16	12	79	9	100	18	86	12	116
Minnesota	—	1	2	3	2	29	5	36	2	30	7	39
Mississippi	1	2	1	4	1	21	70	92	2	23	71	96
Missouri	—	6	3	9	5	37	22	64	5	43	25	73
Montana	—	1	—	1	2	13	1	16	2	14	1	17
Nebraska	—	2	—	2	1	24	10	35	1	26	10	37
Nevada	—	5	—	5	—	1	—	1	—	6	—	6
New Hampshire	—	2	3	5	—	2	—	2	—	4	3	7
New Jersey	5	15	—	20	—	10	2	12	5	25	2	32
New Mexico	—	3	1	4	—	5	3	8	—	8	4	12
New York	4	22	1	27	1	8	3	12	5	30	4	39
North Carolina	1	14	—	15	8	60	—	68	9	74	—	83
North Dakota	—	—	—	—	2	6	—	8	2	6	—	8
Ohio	6	29	5	40	17	114	15	146	23	143	20	186
Oklahoma	—	4	1	5	4	35	33	72	4	39	34	77
Oregon	1	8	—	9	1	19	—	20	2	27	—	29
Pennsylvania	6	12	5	23	7	19	16	42	13	31	21	65
Rhode Island	—	1	—	1	—	3	—	3	—	4	—	4
South Carolina	2	11	—	13	11	43	—	54	13	54	—	67
South Dakota	—	—	—	—	—	10	6	16	—	10	6	16
Tennessee	1	7	1	9	1	33	13	47	2	40	14	56
Texas	6	47	25	78	15	158	137	310	21	205	162	388
Utah	—	3	—	3	9	23	2	34	9	26	2	37
Vermont	—	—	—	—	—	6	—	6	—	6	—	6
Virginia	2	15	1	18	27	36	3	66	29	51	4	84
Washington	1	10	—	11	8	25	—	33	9	35	—	44
West Virginia	1	9	5	15	20	16	5	41	21	25	10	56
Wisconsin	1	6	3	10	4	42	28	74	5	48	31	84
Wyoming	—	4	—	4	—	6	—	6	—	10	—	10
Unknown	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	72	508	107	687	231	1,562	675	2,468	303	2,070	782	3,155

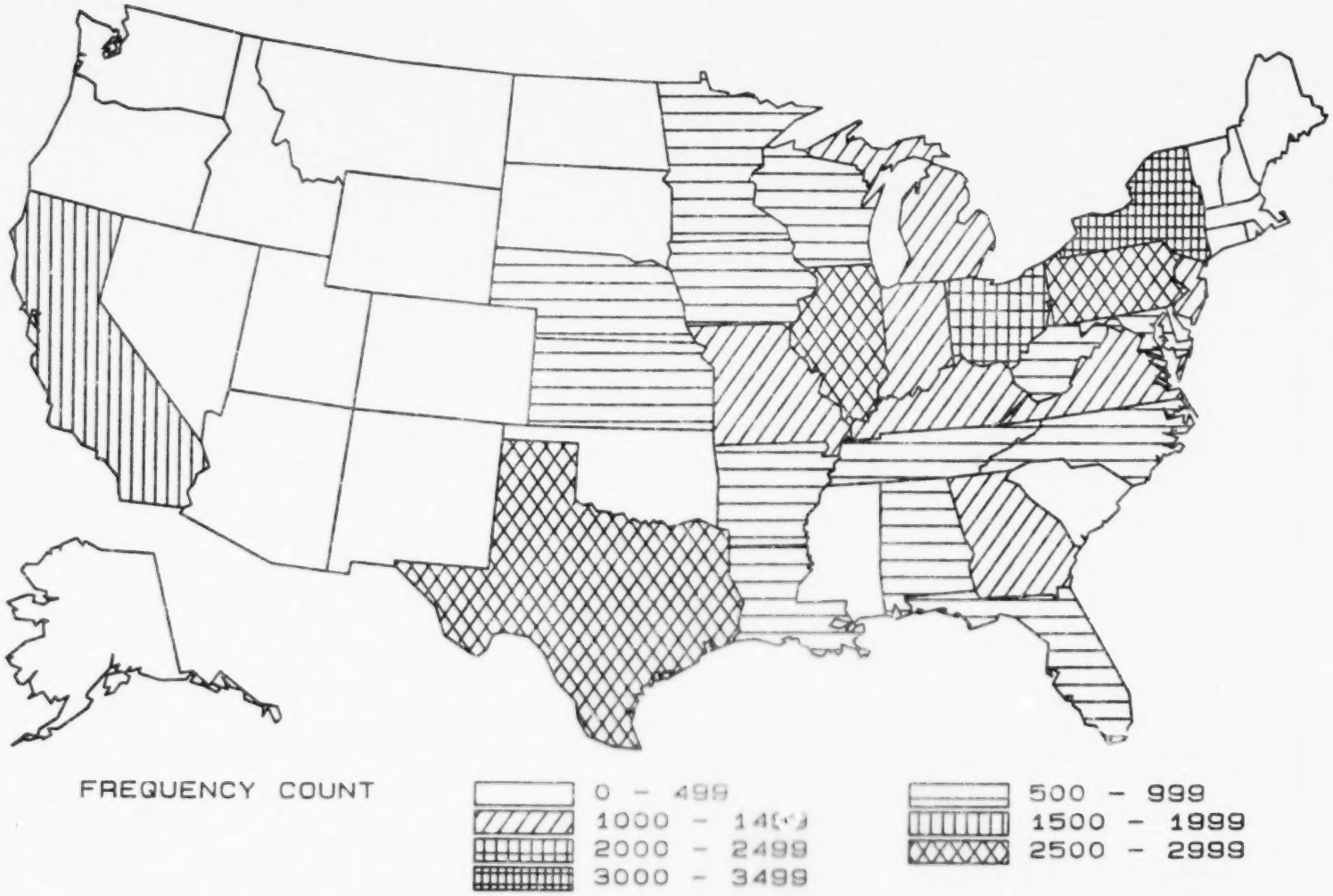


FIGURE 27. INJURIES BY STATE

TABLE 36. SUMMARY OF TRAIN-MILES OPERATED

Railroad	Locomotive Train Miles	Motor Train Miles	Yard Switching Train Miles	Total Train Miles
CLASS I RAILROADS				
Alabama Great Southern Railroad Co.	1,406,730	---	561,432	1,968,162
Amtrak (National RR Passenger Corp)	26,825,781	1,970,460	281,862	29,078,103
Atchison, Topeka And Santa Fe Rwy Co.	42,847,836	---	5,389,068	48,236,904
Baltimore And Ohio Railroad Co.	12,547,094	191,124	3,695,982	16,434,200
Bessemer And Lake Erie Railroad Co.	600,521	---	90,402	690,923
Boston And Maine Corporation	1,793,573	1,354,547	860,420	4,008,540
Burlington Northern Incorporated	64,370,586	3,022,036	14,083,598	81,476,220
Central Of Georgia Railroad Company	1,759,126	---	1,185,390	2,944,516
Chesapeake And Ohio Railway Company	9,788,386	---	3,791,898	13,580,284
Chicago And North Western	11,231,040	2,061,087	4,390,890	17,683,017
Chicago, Milw, St. Paul And Pacific	5,584,834	---	2,155,802	7,740,636
Cincinnati, New Orleans And TX Pac Co.	2,327,360	---	862,317	3,189,677
Consolidated Rail Corporation	35,044,649	---	12,028,782	47,073,431
Delaware And Hudson Railway	2,478,459	---	136,539	2,614,998
Denver And Rio Grande Western RR Co.	6,546,652	---	859,697	7,406,349
Duluth, Missabe And Iron Range Rwy Co.	723,088	---	366,541	1,089,629
Elgin, Joliet And Eastern Railway Co.	375,550	---	952,016	1,327,566
Florida East Coast Railway Co.	2,464,471	---	712,439	3,176,910
Grand Trunk Western Railroad Co.	3,396,355	---	2,169,552	5,565,907
Illinois Central Gulf Railroad Co.	13,476,013	1,080,806	3,802,426	18,359,245
Kansas City Southern Railway Co.	2,618,699	---	1,036,866	3,655,565
Louisiana And Arkansas Rwy Company	1,246,083	---	351,332	1,597,415
Missouri Pacific Railroad Co.	25,322,681	---	7,393,560	32,716,241
Missouri-Kansas-Texas Railroad Co.	3,287,426	---	1,278,187	4,565,613
Norfolk And Western Railway Co.	14,475,723	---	5,789,682	20,265,405
Pittsburg And Lake Erie Railroad Co.	235,117	---	271,216	506,333
Seaboard System Railroad	37,006,509	---	17,355,533	54,362,042
Soo Line Railroad Company	3,904,481	---	1,293,750	5,198,231
Southern Pacific Transportation Co.	26,394,205	---	8,756,490	35,150,695
Southern Railway Company	13,197,222	---	5,936,662	19,133,884
St. Louis Southwestern Railway Co.	6,337,738	---	857,815	7,195,553
Union Pacific Railroad Co.	32,271,894	---	2,636,178	34,908,072
Total Class I Railroads	411,885,882	9,680,060	111,334,324	532,900,266
CLASS II RAILROADS				
Bangor And Aroostook Railroad Co.	419,982	---	103,658	523,640
Canadian Pacific Lines In Maine	264,119	---	---	264,119
Carolina And Northwestern Rwy Company	357,238	---	30,204	387,442
Central Vermont Railway Inc	387,107	---	50,526	437,633
Chicago And Illinois Midland Rwy Co.	62,354	---	43,144	105,498
Chicago South Shore And South Bend RR	198,460	1,933,223	---	2,131,683
Duluth, Winnipeg And Pacific Rwy Co.	471,895	---	142,400	614,295
Georgia Southern And Florida Railway	866,766	---	166,796	1,033,562
Green Bay And Western Railroad	162,677	---	132,787	295,464
Maine Central Railroad Company	660,006	---	520,219	1,180,225
Michigan Interstate Railroad	---	---	52,034	52,034
Monongahela Railway	223,626	---	---	223,626
Northwestern Pacific Railroad	254,267	---	78,457	332,724
Oklahoma, Kansas Texas Railroad	412,657	---	94,292	506,949
Richmond, Fredericksburg And Potomac	1,847,618	---	463,440	2,311,058
Spokane International Railroad	125,978	---	15,942	141,920
Texas And Northern Railway Company	16,031	---	12,484	28,515
Texas, Mexican Railway Company	103,936	---	105,004	208,940
Total Class II Railroads	6,834,717	1,933,223	2,011,387	10,779,327
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
Class I Railroads	411,885,882	9,680,060	111,334,324	532,900,266
Class II Railroads	6,834,717	1,933,223	2,011,387	10,779,327
Class III Railroads	15,615,322	20,185,579	13,119,543	48,920,444
Total All Railroads	434,335,921	31,798,862	126,465,254	592,600,037

TABLE 37. INVOLVEMENT IN TRAIN ACCIDENTS BY RAILROAD, TYPE, AND CAUSE

Railroad	Collisions						Derailments					
	Human	Equip	Track	Other	Total	Damages	Human	Equip	Track	Other	Total	Damages
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	1	—	—	—	1	1,500	—	2	2	—	4	179,350
Amtrak (National RR Passenger Corp)	4	—	1	4	9	3,407,700	8	3	12	1	24	10,236,975
Atchison, Topeka And Santa Fe Rwy Co.	16	3	1	3	23	4,295,131	39	28	52	14	133	9,667,665
Baltimore And Ohio Railroad Co.	8	—	—	2	10	101,475	12	19	40	15	86	5,716,266
Bessemer And Lake Erie Railroad Co.	—	—	—	1	1	2,500	—	—	1	—	1	20,800
Boston And Maine Corporation	7	—	1	—	8	488,307	4	2	19	5	30	1,628,579
Burlington Northern Incorporated	42	3	4	9	58	12,153,467	65	85	196	43	389	31,117,457
Central Of Georgia Railroad Company	2	—	—	—	2	15,500	1	1	6	—	8	368,450
Chesapeake And Ohio Railway Company	18	1	—	1	20	264,110	19	19	35	8	81	2,444,927
Chicago And North Western	19	—	1	—	20	330,758	28	22	121	18	189	6,419,234
Chicago, Milw, St. Paul And Pacific	9	1	1	5	16	196,184	47	30	78	16	171	9,243,688
Cincinnati, New Orleans And TX Pac Co.	—	—	—	—	—	—	—	2	—	—	2	39,000
Consolidated Rail Corporation	29	1	—	8	38	1,340,514	66	41	90	28	225	8,286,878
Delaware And Hudson Railway	—	—	—	1	1	—	8	9	31	8	56	2,632,141
Denver And Rio Grande Western RR Co.	2	—	—	—	2	228,150	—	2	2	—	4	1,013,322
Duluth, Missabe And Iron Range Rwy Co.	—	—	—	—	—	—	—	—	7	3	10	133,949
Elgin, Joliet And Eastern Railway Co.	3	—	1	—	4	80,198	3	—	12	5	20	225,147
Florida East Coast Railway Co.	2	—	—	—	2	39,229	3	2	2	—	7	1,126,758
Grand Trunk Western Railroad Co.	6	—	—	—	6	157,328	8	6	5	4	23	530,873
Illinois Central Gulf Railroad Co.	12	—	—	2	14	928,492	8	8	48	12	76	3,654,533
Kansas City Southern Railway Co.	7	—	—	1	8	202,158	3	5	30	2	40	3,380,226
Louisiana And Arkansas Rwy Company	2	1	—	—	3	36,566	4	2	7	2	15	511,992
Missouri Pacific Railroad Co.	32	1	6	4	43	1,271,801	37	48	78	10	173	6,597,503
Missouri-Kansas-Texas Railroad Co.	9	—	1	—	10	116,699	15	7	51	3	76	2,922,025
Norfolk And Western Railway Co.	13	2	—	2	17	328,734	38	18	35	8	99	3,517,796
Pittsburg And Lake Erie Railroad Co.	—	—	—	—	—	—	2	—	4	2	8	447,773
Seaboard System Railroad	12	2	1	4	19	604,396	45	44	64	14	167	15,759,680
Soo Line Railroad Company	10	3	—	—	13	171,271	5	9	36	2	52	1,872,481
Southern Pacific Transportation Co.	23	1	—	—	24	774,023	50	89	211	48	398	22,696,892
Southern Railway Company	9	—	—	—	9	83,050	11	8	18	3	40	2,402,025
St. Louis Southwestern Railway Co.	5	—	—	—	5	782,350	4	15	44	9	72	6,365,598
Union Pacific Railroad Co.	18	1	—	2	21	486,644	36	44	43	19	142	13,798,237
Total Class I Railroads	320	20	18	49	407	28,888,235	569	570	1,380	302	2,821	174,958,220
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	298	20	17	43	378	28,888,235	535	539	1,282	290	2,646	174,958,220
Class II Railroads	5	1	—	—	6	119,484	8	11	43	9	71	6,017,765
Class III Railroads	29	2	—	4	35	1,177,300	45	19	117	17	198	9,289,192
Total All Railroads	332	23	17	47	419	30,185,019	588	569	1,442	316	2,915	190,265,177

TABLE 37. (CONTINUED)

Railroad	Other Accidents: Human	Equip	Track	Other	Total	Damages	Total: Accs.	Rate*	Damages
CLASS I RAILROADS									
Alabama Great Southern Railroad Co....	—	—	—	—	—	—	5	2.53	180,850
Amtrak (National RR Passenger Corp)...	4	4	—	23	31	4,946,860	64	2.20	18,591,535
Atchison, Topeka And Santa Fe Rwy Co..	5	3	—	12	20	1,389,026	176	3.64	15,351,822
Baltimore And Ohio Railroad Co.....	4	3	—	3	10	101,617	106	6.45	5,919,358
Bessemer And Lake Erie Railroad Co....	—	—	—	—	—	—	2	2.89	23,300
Boston And Maine Corporation.....	2	4	—	7	13	472,250	51	12.71	2,589,136
Burlington Northern Incorporated.....	17	5	2	26	50	1,263,899	497	6.09	44,534,823
Central Of Georgia Railroad Company...	—	1	—	—	1	6,050	11	3.74	390,000
Chesapeake And Ohio Railway Company...	1	—	—	3	4	164,600	105	7.73	2,873,637
Chicago And North Western.....	18	—	—	7	25	538,172	234	13.23	7,288,164
Chicago, Milw, St. Paul And Pacific...	7	8	—	4	19	167,185	206	26.61	9,607,057
Cincinnati, New Orleans And TX Pac Co.	—	—	—	—	—	—	2	0.62	39,000
Consolidated Rail Corporation.....	9	1	2	34	46	683,860	309	6.56	10,311,252
Delaware And Hudson Railway.....	1	1	—	—	2	24,300	59	22.60	2,656,441
Denver And Rio Grande Western RR Co...	—	—	—	2	2	55,167	8	1.07	1,296,639
Duluth, Missabe And Iron Range Rwy Co.	—	—	—	—	—	—	10	9.17	133,949
Elgin, Joliet And Eastern Railway Co..	3	1	—	—	4	27,216	28	21.05	332,561
Florida East Coast Railway Co.....	—	—	—	—	—	—	9	2.83	1,165,987
Grand Trunk Western Railroad Co.....	11	3	2	6	22	824,474	51	9.15	1,512,675
Illinois Central Gulf Railroad Co.....	2	1	—	5	8	170,500	98	5.33	4,753,525
Kansas City Southern Railway Co.....	5	—	—	—	5	49,619	53	14.48	3,632,003
Louisiana And Arkansas Rwy Company....	4	—	—	2	6	65,742	24	15.00	614,300
Missouri Pacific Railroad Co.....	2	—	—	11	13	961,431	229	6.99	8,830,735
Missouri-Kansas-Texas Railroad Co.....	1	1	—	6	8	231,643	94	20.56	3,270,367
Norfolk And Western Railway Co.....	2	5	—	13	20	999,796	136	6.70	4,846,326
Pittsburg And Lake Erie Railroad Co...	—	—	1	—	1	10,000	9	17.64	457,773
Seaboard System Railroad.....	11	4	—	37	52	1,174,075	238	4.37	17,538,151
Soo Line Railroad Company.....	—	1	—	2	3	19,008	68	13.07	2,062,760
Southern Pacific Transportation Co....	25	7	4	34	70	1,472,777	492	13.99	24,943,692
Southern Railway Company.....	4	—	—	13	17	215,300	66	3.45	2,700,375
St. Louis Southwestern Railway Co.....	6	6	—	8	20	1,611,461	97	13.47	8,759,409
Union Pacific Railroad Co.....	3	2	—	10	15	647,081	178	5.09	14,931,962
Total Class I Railroads.....	147	61	11	268	487	18,293,109	3,715	6.97	222,139,564
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads.....	143	61	11	249	464	18,293,109	3,488	6.54	222,139,564
Class II Railroads.....	6	1	—	10	17	213,715	94	8.71	6,350,964
Class III Railroads.....	31	7	11	36	85	1,505,494	318	6.50	11,971,986
Total All Railroads.....	180	69	22	295	566	20,012,318	3,900	6.58	240,462,514

* Accident rate per million train miles.

The reporting rules require that when multiple railroads are involved in an accident, each railroad must prepare a report that describes the extent of their involvement. An example of this would be when a train of one railroad derails on track maintained by another railroad. In all other tables these situations appear as a single count. In this table, when an accident involves Class 1 railroads, a count is made against each railroad involved. This duplication does not appear in the total for Class 1 railroads shown in the recapitulation.

TABLE 38. FATALITIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

Railroad	Train Accident						Train Incident					
	EOD	ENOD	PSGR	NONT	TRES	Total	EOD	ENOD	PSGR	NONT	TRES	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	—	—	—	—	—	—	—	—	—	—	3	3
Amtrak (National RR Passenger Corp)	1	—	4	—	1	6	—	—	2	1	26	29
Atchison, Topeka And Santa Fe Rwy Co.	2	—	—	2	1	5	—	—	—	51	29	80
Baltimore And Ohio Railroad Co.	—	—	—	2	—	2	2	—	—	10	17	29
Bessemer And Lake Erie Railroad Co.	—	—	—	—	—	—	—	—	—	—	—	—
Boston And Maine Corporation	—	—	—	—	—	—	—	—	—	—	6	6
Burlington Northern Incorporated	10	—	—	4	1	15	1	—	—	83	51	135
Central Of Georgia Railroad Company	—	—	—	—	—	—	—	—	—	2	2	4
Chesapeake And Ohio Railway Company	—	—	—	—	—	—	1	—	—	12	8	21
Chicago And North Western	—	—	—	1	—	1	—	—	—	14	13	27
Chicago, Milw, St. Paul And Pacific	—	—	—	—	—	—	1	—	—	8	9	18
Cincinnati, New Orleans And TX Pac Co.	—	—	—	—	—	—	—	—	—	—	—	—
Consolidated Rail Corporation	—	—	—	—	2	2	4	1	—	37	51	93
Delaware And Hudson Railway	—	—	—	—	—	—	—	—	—	—	1	1
Denver And Rio Grande Western RR Co.	—	—	—	—	—	—	1	—	—	2	—	3
Duluth, Missabe And Iron Range Rwy Co.	—	—	—	—	—	—	—	—	—	—	—	—
Elgin, Joliet And Eastern Railway Co.	—	—	—	—	—	—	—	—	—	2	—	2
Florida East Coast Railway Co.	—	—	—	—	—	—	—	—	—	2	17	19
Grand Trunk Western Railroad Co.	—	—	—	2	—	2	—	—	—	18	1	19
Illinois Central Gulf Railroad Co.	1	—	—	—	—	1	—	—	—	25	13	38
Kansas City Southern Railway Co.	—	—	—	—	—	—	—	—	—	4	4	8
Louisiana And Arkansas Rwy Company	—	—	—	—	—	—	—	—	—	1	2	3
Missouri Pacific Railroad Co.	3	—	—	1	—	4	2	—	—	90	37	129
Missouri-Kansas-Texas Railroad Co.	—	—	—	—	—	—	—	—	—	5	4	9
Norfolk And Western Railway Co.	1	—	—	1	—	2	2	—	—	29	16	47
Pittsburg And Lake Erie Railroad Co.	—	—	—	—	—	—	—	—	—	—	2	2
Seaboard System Railroad	1	—	—	5	1	7	1	1	—	52	54	108
Soo Line Railroad Company	—	—	—	1	—	1	—	—	—	4	1	5
Southern Pacific Transportation Co.	—	—	—	1	2	3	3	—	—	25	71	99
Southern Railway Company	—	—	—	2	—	2	—	—	—	13	35	48
St. Louis Southwestern Railway Co.	—	—	—	2	—	2	—	—	—	6	3	9
Union Pacific Railroad Co.	1	—	—	1	—	2	—	2	—	19	14	35
Total Class I Railroads	20	—	4	25	8	57	18	4	2	515	490	1,029
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	20	—	4	25	8	57	18	4	2	515	490	1,029
Class II Railroads	1	—	—	—	2	3	—	—	—	10	7	17
Class III Railroads	1	—	—	—	2	3	5	—	5	14	48	72
Total All Railroads	22	—	4	25	12	63	23	4	7	539	545	1,118

EOD = Employee on duty
ENOD = Employee not on duty
PSGR = Passenger on train
NONT = Nontrespasser
TRES = Trespasser

TABLE 38. (CONTINUED)

Railroad	Nontrain Incident						Total					
	Kod	Knod	Pagr	Nont	Tres	Total	Kod	Knod	Pagr	Nont	Tres	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co....	—	—	—	—	—	—	—	—	—	—	3	3
Amtrak (National RR Passenger Corp)...	—	1	1	—	7	9	1	1	7	1	34	44
Atchison, Topeka And Santa Fe Rwy Co..	—	—	—	1	—	1	2	—	—	34	30	86
Baltimore And Ohio Railroad Co.....	—	—	—	—	—	—	2	—	—	12	17	31
Bessemer And Lake Erie Railroad Co....	—	—	—	—	—	—	—	—	—	—	—	—
Boston And Maine Corporation.....	—	—	—	—	—	—	—	—	—	—	6	6
Burlington Northern Incorporated.....	1	—	—	—	2	3	12	—	—	87	54	153
Central Of Georgia Railroad Company...	—	—	—	—	—	—	—	—	—	2	2	4
Chesapeake And Ohio Railway Company...	—	—	—	—	1	1	1	—	—	12	9	22
Chicago And North Western.....	1	—	—	2	1	4	1	—	—	17	14	32
Chicago, Milw, St. Paul And Pacific...	—	—	—	—	—	—	1	—	—	8	9	18
Cincinnati, New Orleans And TX Pac Co.	—	—	—	—	—	—	—	—	—	—	—	—
Consolidated Rail Corporation.....	1	—	—	1	3	6	6	1	—	38	56	101
Delaware And Hudson Railway.....	—	—	—	—	—	—	—	—	—	—	1	1
Denver And Rio Grande Western RR Co...	—	—	—	—	—	—	1	—	—	2	—	3
Duluth, Missabe And Iron Range Rwy Co.	—	—	—	—	—	—	—	—	—	—	—	—
Elgin, Joliet And Eastern Railway Co..	—	—	—	—	—	—	—	—	—	2	—	2
Florida East Coast Railway Co.....	—	—	—	—	—	—	—	—	—	2	17	19
Grand Trunk Western Railroad Co.....	—	—	—	—	—	—	—	—	—	20	1	21
Illinois Central Gulf Railroad Co.....	1	—	—	1	—	2	2	—	—	26	13	41
Kansas City Southern Railway Co.....	—	—	—	—	—	—	—	—	—	4	4	8
Louisiana And Arkansas Rwy Company....	—	—	—	—	—	—	—	—	—	1	2	3
Missouri Pacific Railroad Co.....	1	—	—	6	1	8	6	—	—	97	38	141
Missouri-Kansas-Texas Railroad Co.....	—	—	—	1	—	1	—	—	—	6	4	10
Norfolk And Western Railway Co.....	—	—	—	—	4	4	3	—	—	30	20	53
Pittsburg And Lake Erie Railroad Co...	—	—	—	—	—	—	—	—	—	—	2	2
Seaboard System Railroad.....	1	—	—	2	2	5	3	1	—	59	57	120
Soo Line Railroad Company.....	—	—	—	—	—	—	—	—	—	5	1	6
Southern Pacific Transportation Co....	—	—	—	—	2	2	3	—	—	26	75	104
Southern Railway Company.....	2	—	—	—	—	2	2	—	—	15	35	52
St. Louis Southwestern Railway Co.....	3	—	—	—	—	3	3	—	—	8	3	14
Union Pacific Railroad Co.....	—	—	—	—	—	—	1	2	—	20	14	37
Total Class I Railroads.....	12	1	1	14	23	51	50	5	7	534	521	1,137
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	12	1	1	14	23	51	50	5	7	534	521	1,137
Class II Railroads.....	1	—	—	—	—	1	2	—	—	10	9	21
Class III Railroads.....	1	—	—	5	8	14	7	—	5	19	58	89
Total All Railroads.....	14	1	1	19	31	66	59	5	12	583	588	1,247

TABLE 39. NONFATAL CASUALTIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

Railroad	Train Accident						Train Incident					
	EOD	ENOD	PSGR	NONT	TRES	Total	EOD	ENOD	PSGR	NONT	TRES	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	—	—	—	—	—	—	12	—	—	8	4	24
Amtrak (National RR Passenger Corp)	60	1	78	1	—	140	155	1	101	4	5	266
Atchison, Topeka And Santa Fe Rwy Co.	15	—	—	5	—	20	133	—	—	158	42	333
Baltimore And Ohio Railroad Co.	14	—	—	1	—	15	250	—	2	86	37	375
Bessemer And Lake Erie Railroad Co.	—	—	—	—	—	—	2	—	—	—	—	2
Boston And Maine Corporation	6	—	—	1	—	7	21	1	5	7	7	41
Burlington Northern Incorporated	44	—	—	8	1	53	338	1	3	202	32	576
Central Of Georgia Railroad Company	—	—	—	—	—	—	30	—	—	19	—	49
Chesapeake And Ohio Railway Company	5	—	—	1	—	6	233	2	1	95	25	356
Chicago And North Western	14	—	—	—	—	14	77	1	2	77	16	173
Chicago, Milw, St. Paul And Pacific	8	—	—	—	—	8	60	—	—	27	11	98
Cincinnati, New Orleans And TX Pac Co.	—	—	—	—	—	—	10	—	—	4	—	14
Consolidated Rail Corporation	26	—	—	2	3	31	448	2	—	99	52	601
Delaware And Hudson Railway	2	—	—	—	—	2	26	—	—	1	—	27
Denver And Rio Grande Western RR Co.	—	—	—	—	—	—	35	—	—	19	3	57
Duluth, Missabe And Iron Range Rwy Co.	—	—	—	—	—	—	5	—	—	4	—	9
Elgin, Joliet And Eastern Railway Co.	—	—	—	—	—	—	24	—	—	3	3	30
Florida East Coast Railway Co.	—	—	—	—	—	—	4	—	—	2	21	27
Grand Trunk Western Railroad Co.	7	—	—	8	—	15	115	—	—	64	5	184
Illinois Central Gulf Railroad Co.	10	—	—	4	—	14	171	1	6	168	6	352
Kansas City Southern Railway Co.	2	—	—	—	—	2	35	—	—	18	4	57
Louisiana And Arkansas Rwy Company	1	—	—	—	—	1	24	—	—	35	4	63
Missouri Pacific Railroad Co.	31	—	—	6	—	37	440	—	—	363	55	858
Missouri-Kansas-Texas Railroad Co.	6	—	—	3	—	9	48	—	—	43	5	96
Norfolk And Western Railway Co.	10	1	—	2	2	15	211	2	4	185	46	448
Pittsburg And Lake Erie Railroad Co.	—	—	—	—	—	—	8	—	—	2	—	10
Seaboard System Railroad	32	—	—	8	2	42	616	1	—	195	78	890
Soo Line Railroad Company	4	—	—	1	—	5	58	—	—	47	4	109
Southern Pacific Transportation Co.	31	—	—	7	5	43	365	—	4	85	99	553
Southern Railway Company	1	—	—	3	—	4	129	—	—	142	20	291
St. Louis Southwestern Railway Co.	6	—	—	—	—	6	49	—	—	25	—	74
Union Pacific Railroad Co.	17	—	—	1	—	18	271	2	—	69	16	358
Total Class I Railroads	352	2	78	62	13	507	4,403	14	128	2,256	600	7,401
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	352	2	78	62	13	507	4,403	14	128	2,256	600	7,401
Class II Railroads	6	—	4	2	—	12	104	—	—	44	3	151
Class III Railroads	39	—	321	13	1	374	495	2	35	91	70	693
Total All Railroads	397	2	403	77	14	893	5,002	16	163	2,391	673	8,245

EOD = Employee on duty
ENOD = Employee not on duty
PSGR = Passenger on train
NONT = Nontrespasser
TRES = Trespasser

TABLE 39. (CONTINUED)

Railroad	Montrain Incident						Total					
	Eod	Enod	Pagr	Mont	Trea	Total	Eod	Enod	Pagr	Mont	Trea	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co....	27	—	—	1	—	28	39	—	—	9	4	52
Amtrak (National RR Passenger Corp)...	1,482	31	58	22	6	1,599	1,697	33	237	27	11	2,005
Atchison, Topeka And Santa Fe Rwy Co..	1,182	33	—	4	1	1,220	1,330	33	—	167	43	1,573
Baltimore And Ohio Railroad Co.....	953	26	5	23	3	1,010	1,217	26	7	110	40	1,400
Bessemer And Lake Erie Railroad Co....	22	—	—	—	—	22	24	—	—	—	—	24
Boston And Maine Corporation.....	155	1	12	3	—	171	182	2	17	11	7	219
Burlington Northern Incorporated.....	2,088	41	1	18	12	2,160	2,470	42	4	228	45	2,789
Central Of Georgia Railroad Company...	73	1	—	1	—	75	103	1	—	20	—	124
Chesapeake And Ohio Railway Company...	981	11	—	4	1	997	1,219	13	1	100	26	1,359
Chicago And North Western.....	667	12	33	23	2	737	758	13	35	100	18	924
Chicago, Milw, St. Paul And Pacific...	407	—	—	2	1	410	475	—	—	29	12	516
Cincinnati, New Orleans And TX Pac Co.	41	—	—	—	—	41	51	—	—	4	—	55
Consolidated Rail Corporation.....	3,120	63	—	4	6	3,193	3,594	65	—	105	61	3,825
Delaware And Hudson Railway.....	140	2	—	—	—	142	168	2	—	1	—	171
Denver And Rio Grande Western RR Co...	86	—	—	—	1	87	121	—	—	19	4	144
Duluth, Missabe And Iron Range Rwy Co.	81	1	—	27	—	109	86	1	—	31	—	118
Elgin, Joliet And Eastern Railway Co..	60	4	—	—	—	64	84	4	—	3	3	94
Florida East Coast Railway Co.....	23	—	—	—	—	23	27	—	—	2	21	50
Grand Trunk Western Railroad Co.....	478	1	—	13	2	494	600	1	—	85	7	693
Illinois Central Gulf Railroad Co.....	771	11	19	34	1	836	952	12	25	206	7	1,202
Kansas City Southern Railway Co.....	76	1	—	—	—	77	113	1	—	18	4	136
Louisiana And Arkansas Rwy Company....	40	—	—	—	—	40	65	—	—	35	4	104
Missouri Pacific Railroad Co.....	1,527	—	—	25	2	1,554	1,998	—	—	394	57	2,449
Missouri-Kansas-Texas Railroad Co.....	116	—	—	18	—	134	170	—	—	64	5	239
Norfolk And Western Railway Co.....	1,686	43	7	58	6	1,800	1,907	46	11	245	54	2,263
Pittsburg And Lake Erie Railroad Co...	103	1	—	—	—	104	111	1	—	2	—	114
Seaboard System Railroad.....	2,384	25	—	22	1	2,432	3,032	26	—	225	81	3,364
Soo Line Railroad Company.....	243	6	—	1	3	253	305	6	—	49	7	367
Southern Pacific Transportation Co....	1,787	21	2	10	19	1,839	2,183	21	6	102	123	2,435
Southern Railway Company.....	991	11	—	21	2	1,025	1,121	11	—	166	22	1,320
St. Louis Southwestern Railway Co.....	222	2	—	—	2	226	277	2	—	25	2	306
Union Pacific Railroad Co.....	1,222	43	—	4	—	1,269	1,510	43	—	74	16	1,645
Total Class I Railroads.....	23,234	391	137	338	71	24,171	27,989	407	343	2,656	684	32,079
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads.....	23,234	391	137	338	71	24,171	27,989	407	343	2,656	684	32,079
Class II Railroads.....	518	3	6	5	—	532	628	3	10	51	3	695
Class III Railroads.....	4,213	32	291	178	15	4,729	4,747	34	647	282	86	5,796
Total All Railroads.....	27,965	426	434	521	86	29,432	33,364	444	1,000	2,989	773	38,570

TABLE 40. INJURIES TO EMPLOYEES ON DUTY BY TYPE OF INJURY AND RAILROAD

Railroad	Amputations						Fractures					
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
CLASS I RAILROADS												
Alabama Great Southern Railroad Co.	—	—	—	—	—	—	1	1	—	—	1	3
Amtrak (National RR Passenger Corp)	—	3	—	—	—	3	8	32	19	13	17	89
Atchison, Topeka And Santa Fe Rwy Co.	—	5	—	1	—	6	21	63	31	8	27	150
Baltimore And Ohio Railroad Co.	—	1	—	—	—	1	15	28	23	12	17	95
Bessemer And Lake Erie Railroad Co.	—	—	—	—	—	—	—	—	—	—	1	1
Boston And Maine Corporation	—	—	—	—	—	—	4	7	3	3	3	20
Burlington Northern Incorporated	1	2	2	1	—	6	42	89	56	31	42	260
Central Of Georgia Railroad Company	—	—	—	1	—	1	3	1	3	—	—	7
Chesapeake And Ohio Railway Company	—	6	—	—	—	6	16	30	28	11	9	94
Chicago And North Western	—	4	—	—	—	4	8	29	15	12	14	78
Chicago, Milw, St. Paul And Pacific	—	—	—	—	—	—	2	14	10	5	9	40
Cincinnati, New Orleans And TX Pac Co.	—	—	—	1	—	1	2	—	—	—	—	2
Consolidated Rail Corporation	1	5	1	1	—	8	51	111	58	49	56	325
Delaware And Hudson Railway	—	—	—	—	—	—	1	5	1	—	5	12
Denver And Rio Grande Western RR Co.	—	—	—	—	—	—	2	4	4	1	3	14
Duluth, Missabe And Iron Range Rwy Co.	—	1	—	—	—	1	2	3	3	—	1	9
Elgin, Joliet And Eastern Railway Co.	—	—	—	—	—	—	3	3	—	2	3	11
Florida East Coast Railway Co.	—	1	—	—	—	1	1	1	—	2	—	4
Grand Trunk Western Railroad Co.	—	—	1	—	—	1	3	8	2	4	3	20
Illinois Central Gulf Railroad Co.	2	3	1	—	—	6	9	29	16	3	18	75
Kansas City Southern Railway Co.	—	—	—	—	—	—	4	3	3	3	3	16
Louisiana And Arkansas Rwy Company	—	—	—	—	—	—	—	1	1	1	2	5
Missouri Pacific Railroad Co.	—	1	2	1	—	4	27	55	37	29	30	178
Missouri-Kansas-Texas Railroad Co.	—	—	—	—	—	—	4	10	4	3	3	24
Norfolk And Western Railway Co.	—	4	2	1	—	7	13	32	21	19	6	91
Pittsburg And Lake Erie Railroad Co.	—	—	—	—	—	—	3	1	1	1	2	8
Seaboard System Railroad	—	3	1	1	1	6	26	68	25	33	44	196
Soo Line Railroad Company	—	—	—	—	—	—	2	7	7	1	6	23
Southern Pacific Transportation Co.	—	6	1	—	—	7	33	44	38	17	19	151
Southern Railway Company	—	—	—	—	—	—	14	23	18	14	12	81
St. Louis Southwestern Railway Co.	—	3	—	1	—	4	7	7	10	6	6	36
Union Pacific Railroad Co.	—	2	—	1	1	4	19	32	23	22	26	122
Total Class I Railroads	4	50	11	10	2	77	346	741	460	305	388	2,240
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)												
Class I Railroads	4	50	11	10	2	77	346	741	460	305	388	2,240
Class II Railroads	—	—	—	—	—	—	5	13	7	4	10	39
Class III Railroads	—	8	2	1	—	11	51	74	53	47	39	264
Total All Railroads	4	58	13	11	2	88	402	828	520	356	437	2,543

TABLE 40. (CONTINUED)

Railroad	Other Injuries: Bruise	*prain/ Strain	Cut	Elec. Burn	Other Burns	Dioloc- Cation	Object In Eye	Other	Total	Total Injuries
CLASS I RAILROADS										
Alabama Great Southern Railroad Co.....	8	15	10	—	---	1	—	2	36	39
Amtrak (National RR Passenger Corp)....	382	628	267	12	42	12	76	170	1,589	1,681
Atchison, Topeka And Santa Fe Rwy Co...	209	493	221	9	20	9	82	120	1,163	1,319
Baltimore And Ohio Railroad Co.....	233	582	126	—	16	5	71	85	1,118	1,214
Bessemer And Lake Erie Railroad Co.....	2	13	4	—	---	—	2	2	23	24
Boston And Maine Corporation.....	37	59	22	---	1	2	19	21	161	181
Burlington Northern Incorporated.....	366	1,118	391	4	29	8	102	143	2,161	2,427
Central Of Georgia Railroad Company....	24	47	19	—	2	1	1	1	95	103
Chesapeake And Ohio Railway Company....	181	560	149	3	21	6	96	79	1,095	1,195
Chicago And North Western.....	102	329	127	2	18	—	46	35	659	741
Chicago, Milw, St. Paul And Pacific....	77	230	81	—	4	2	20	21	435	475
Cincinnati, New Orleans And TX Pac Co..	9	21	16	—	1	—	—	1	48	51
Consolidated Rail Corporation.....	701	1,574	432	9	55	19	239	164	3,193	3,526
Delaware And Hudson Railway.....	34	64	22	---	3	1	13	12	149	161
Denver And Rio Grande Western RR Co....	21	62	16	—	—	2	1	5	107	121
Duluth, Missabe And Iron Range Rwy Co..	9	45	12	1	1	—	5	3	76	86
Elgin, Joliet And Eastern Railway Co...	17	39	10	1	1	1	2	2	73	84
Florida East Coast Railway Co.....	7	5	9	---	---	---	—	1	22	27
Grand Trunk Western Railroad Co.....	95	303	80	—	6	5	57	32	578	599
Illinois Central Gulf Railroad Co.....	208	387	118	6	16	3	67	64	869	950
Kansas City Southern Railway Co.....	20	58	11	—	1	2	2	3	97	113
Louisiana And Arkansas Rwy Company.....	13	30	7	—	1	1	5	3	60	65
Missouri Pacific Railroad Co.....	387	834	232	6	37	12	170	117	1,795	1,977
Missouri-Kansas-Texas Railroad Co.....	25	51	24	—	2	3	34	5	144	168
Norfolk And Western Railway Co.....	416	718	285	1	31	5	109	242	1,807	1,905
Pittsburg And Lake Erie Railroad Co....	17	56	11	—	4	1	3	11	103	111
Seaboard System Railroad.....	615	1,363	354	6	34	16	239	184	2,811	3,013
Soo Line Railroad Company.....	36	159	36	---	3	1	22	22	279	302
Southern Pacific Transportation Co.....	461	937	288	6	29	15	139	73	1,948	2,106
Southern Railway Company.....	241	429	251	20	22	4	8	54	1,029	1,110
St. Louis Southwestern Railway Co.....	55	114	29	—	4	3	11	12	228	268
Union Pacific Railroad Co.....	241	727	195	2	15	12	85	78	1,355	1,481
Total Class I Railroads.....	5,249	12,050	3,855	88	419	152	1,726	1,767	25,306	27,623
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads.....	5,249	12,050	3,855	88	419	152	1,726	1,767	25,306	27,623
Class II Railroads.....	128	262	69	6	8	1	75	29	578	617
Class III Railroads.....	1,133	1,764	584	50	86	19	358	303	4,297	4,572
Total All Railroads.....	6,510	14,076	4,508	144	513	172	2,159	2,099	30,181	32,812

TABLE 41. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD

Railroad	..Collisions.. Killed	Injured	..Derailments. Killed	Injured	.....Other.... Killed	Injured	.....Total..... Killed	Injured	Rate*	Train Miles
CLASS I RAILROADS										
Alabama Great Southern Railroad Co.	—	—	—	—	—	—	—	—	0.00	1,968,162
Amtrak (National RR Passenger Corp)	1	25	4	72	1	43	6	140	5.02	29,078,103
Atchison, Topeka And Santa Fe Rwy Co.	2	9	1	5	2	6	5	20	0.51	48,236,904
Baltimore And Ohio Railroad Co.	—	1	—	10	2	4	2	15	1.03	16,434,200
Bessemer And Lake Erie Railroad Co.	—	—	—	—	—	—	—	—	0.00	690,923
Boston And Maine Corporation	—	—	—	5	—	2	—	7	1.74	4,008,540
Burlington Northern Incorporated	10	11	—	24	5	18	15	53	0.83	81,476,220
Central Of Georgia Railroad Company	—	—	—	—	—	—	—	—	0.00	2,944,516
Chesapeake And Ohio Railway Company	—	3	—	2	—	1	—	6	0.44	13,580,284
Chicago And North Western	—	1	—	5	1	8	1	14	0.84	17,683,017
Chicago, Milw, St. Paul And Pacific	—	4	—	4	—	—	—	8	1.03	7,740,636
Cincinnati, New Orleans And TX Pac Co.	—	—	—	—	—	—	—	—	0.00	3,189,677
Consolidated Rail Corporation	—	13	—	4	2	14	2	31	0.70	47,073,431
Delaware And Hudson Railway	—	—	—	1	—	1	—	2	0.76	2,614,998
Denver And Rio Grande Western RR Co.	—	—	—	—	—	—	—	—	0.00	7,406,349
Duluth, Missabe And Iron Range Rwy Co.	—	—	—	—	—	—	—	—	0.00	1,089,629
Elgin, Joliet And Eastern Railway Co.	—	—	—	—	—	—	—	—	0.00	1,327,566
Florida East Coast Railway Co.	—	—	—	—	—	—	—	—	0.00	3,176,910
Grand Trunk Western Railroad Co.	—	—	—	1	2	14	2	15	3.05	5,565,907
Illinois Central Gulf Railroad Co.	—	8	1	3	—	3	1	14	0.81	18,359,245
Kansas City Southern Railway Co.	—	1	—	1	—	—	—	2	0.54	3,655,565
Louisiana And Arkansas Rwy Company	—	—	—	—	—	1	—	1	0.62	1,597,415
Missouri Pacific Railroad Co.	1	13	—	5	3	19	4	37	1.25	32,716,241
Missouri-Kansas-Texas Railroad Co.	—	—	—	4	—	5	—	9	1.97	4,565,613
Norfolk And Western Railway Co.	—	—	—	6	2	9	2	15	0.83	20,265,405
Pittsburg And Lake Erie Railroad Co.	—	—	—	—	—	—	—	—	0.00	506,333
Seaboard System Railroad	—	4	1	16	6	22	7	42	0.90	54,362,042
Soo Line Railroad Company	—	3	—	1	1	1	1	5	1.15	5,198,231
Southern Pacific Transportation Co.	—	10	2	12	1	21	3	43	1.30	35,150,695
Southern Railway Company	—	—	—	1	2	3	2	4	0.31	19,133,884
St. Louis Southwestern Railway Co.	—	1	—	2	2	3	2	6	1.11	7,195,553
Union Pacific Railroad Co.	—	3	1	10	1	3	2	18	0.57	34,908,072
Total Class I Railroads	14	110	10	194	33	203	57	507	1.05	532,900,266
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)										
Class I Railroads	14	110	10	194	33	203	57	507	1.05	532,900,266
Class II Railroads	—	—	1	10	2	2	3	12	1.39	10,779,327
Class III Railroads	1	317	—	13	2	44	3	374	7.70	48,920,444
Total All Railroads	15	427	11	217	37	249	63	893	1.61	592,600,037

NOTE: Injured columns include nonfatal occupational illnesses.
*Rate is frequency per 1,000,000 train miles.

TABLE 42. CASUALTIES TO EMPLOYEES ON DUTY BY JOB CATEGORY AND RAILROAD

Railroad	I. Exec Office Staff II. Prof,Clerical,General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
CLASS I RAILROADS									
Alabama Great Southern Railroad Co.....	—	4	—	—	11	—	—	1	—
Amtrak (National RR Passenger Corp)....	—	134	1	—	589	10	—	532	5
Atchison, Topeka And Santa Fe Rwy Co...	—	39	—	—	519	5	—	345	1
Baltimore And Ohio Railroad Co.....	—	45	—	—	384	1	—	206	—
Bessemer And Lake Erie Railroad Co.....	—	2	—	—	10	—	—	8	—
Boston And Maine Corporation.....	—	9	—	—	73	—	—	53	—
Burlington Northern Incorporated.....	—	116	—	—	963	18	2	450	5
Central Of Georgia Railroad Company....	—	6	—	—	13	—	—	11	—
Chesapeake And Ohio Railway Company....	—	50	—	—	370	8	—	250	1
Chicago And North Western.....	—	26	—	1	307	12	—	167	3
Chicago, Milw, St. Paul And Pacific....	—	14	—	—	197	—	1	100	—
Cincinnati, New Orleans And TX Pac Co..	—	—	—	—	8	—	—	21	—
Consolidated Rail Corporation.....	—	209	3	2	1,256	27	1	829	9
Delaware And Hudson Railway.....	—	10	2	—	62	2	—	30	2
Denver And Rio Grande Western RR Co....	—	2	—	—	49	—	1	13	—
Duluth, Missabe And Iron Range Rwy Co..	—	2	—	—	44	—	—	23	—
Elgin, Joliet And Eastern Railway Co...	—	13	—	—	16	—	—	18	—
Florida East Coast Railway Co.....	—	3	—	—	6	—	—	13	—
Grand Trunk Western Railroad Co.....	—	55	—	—	87	—	—	174	1
Illinois Central Gulf Railroad Co.....	—	44	—	—	278	1	1	218	—
Kansas City Southern Railway Co.....	—	—	—	—	41	—	—	24	—
Louisiana And Arkansas Rwy Company.....	—	—	—	—	11	—	—	12	—
Missouri Pacific Railroad Co.....	—	47	1	2	821	2	1	370	6
Missouri-Kansas-Texas Railroad Co.....	—	1	—	—	55	—	—	27	1
Norfolk And Western Railway Co.....	—	91	—	1	896	2	—	455	—
Pittsburg And Lake Erie Railroad Co....	—	4	—	—	32	—	—	60	—
Seaboard System Railroad.....	—	69	—	—	1,098	13	1	533	3
Soo Line Railroad Company.....	—	9	—	—	103	2	—	66	1
Southern Pacific Transportation Co.....	—	193	5	2	636	22	—	478	15
Southern Railway Company.....	—	46	—	2	281	3	—	425	3
St. Louis Southwestern Railway Co.....	1	18	1	2	105	4	—	58	3
Union Pacific Railroad Co.....	—	110	8	—	587	6	—	243	8
Total Class I Railroads.....	1	1,371	21	12	9,908	138	8	6,213	67
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)									
Class I Railroads.....	1	1,371	21	12	9,908	138	8	6,213	67
Class II Railroads.....	1	26	—	—	208	4	—	173	1
Class III Railroads.....	—	265	6	2	1,530	102	—	1,307	38
Total All Railroads.....	2	1,662	27	14	11,646	244	8	7,693	106

TABLE 42. (CONTINUED)

Railroad	V. Transportation Hot train, engine Killed	Injured	Illness	VI Transportation Train and Engine Killed	Injured	Illness
CLASS I RAILROADS						
Alabama Great Southern Railroad Co.	—	—	—	—	23	—
Amtrak (National RR Passenger Corp)	1	341	—	—	85	—
Atchison, Topeka And Santa Fe Rwy Co.	—	8	—	2	408	5
Baltimore And Ohio Railroad Co.	—	21	—	2	558	2
Bessemer And Lake Erie Railroad Co.	—	—	—	—	4	—
Boston And Maine Corporation	—	—	—	—	46	1
Burlington Northern Incorporated	1	31	—	9	867	20
Central Of Georgia Railroad Company	—	—	—	—	73	—
Chesapeake And Ohio Railway Company	—	38	1	1	487	14
Chicago And North Western	—	15	—	—	226	2
Chicago, Milw, St. Paul And Pacific	—	15	—	—	149	—
Cincinnati, New Orleans And TX Pac Co.	—	2	—	—	20	—
Consolidated Rail Corporation	—	105	6	3	1,127	23
Delaware And Hudson Railway	—	2	—	—	37	1
Denver And Rio Grande Western RR Co.	—	1	—	—	56	—
Duluth, Missabe And Iron Range Rwy Co.	—	1	—	—	16	—
Elgin, Joliet And Eastern Railway Co.	—	1	—	—	36	—
Florida East Coast Railway Co.	—	—	—	—	5	—
Grand Trunk Western Railroad Co.	—	21	—	—	262	—
Illinois Central Gulf Railroad Co.	—	10	—	1	400	1
Kansas City Southern Railway Co.	—	1	—	—	47	—
Louisiana And Arkansas Rwy Company	—	—	—	—	42	—
Missouri Pacific Railroad Co.	1	6	—	2	733	12
Missouri-Kansas-Texas Railroad Co.	—	3	—	—	82	1
Norfolk And Western Railway Co.	—	25	—	2	436	—
Pittsburg And Lake Erie Railroad Co.	—	2	—	—	13	—
Seaboard System Railroad	—	36	—	2	1,277	3
Soo Line Railroad Company	—	3	—	—	121	—
Southern Pacific Transportation Co.	—	31	1	1	768	34
Southern Railway Company	—	33	1	—	325	4
St. Louis Southwestern Railway Co.	—	—	—	—	87	1
Union Pacific Railroad Co.	—	11	—	1	530	7
Total Class I Railroads	3	763	9	26	9,368	131
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)						
Class I Railroads	3	763	9	26	9,368	131
Class II Railroads	—	13	—	1	197	6
Class III Railroads	2	125	—	3	1,345	29
Total All Railroads	5	901	9	30	10,910	166

TABLE 43. CASUALTY RATES FOR EMPLOYEES ON DUTY BY RAILROAD

Railroad	Fatalities #	Fatalities Rate	Injuries #	Injuries Rate	Illnesses #	Illnesses Rate	...Total... #	...Total... Rate	Employee Manhours
Alabama Great Southern Railroad Co.	—	0.00	39	11.14	—	0.00	39	11.14	700,423
Amtrak (National RR Passenger Corp)	1	0.00	1,681	7.98	16	0.08	1,698	8.06	42,134,956
Atchison, Topeka And Santa Fe Rwy Co.	2	0.01	1,319	5.27	11	0.04	1,332	5.32	50,054,268
Baltimore And Ohio Railroad Co.	2	0.02	1,214	10.05	3	0.02	1,219	10.09	24,151,913
Bessemer And Lake Erie Railroad Co.	—	0.00	24	3.25	—	0.00	24	3.25	1,477,324
Boston And Maine Corporation	—	0.00	181	7.14	1	0.04	182	7.18	5,071,370
Burlington Northern Incorporated	12	0.03	2,427	6.26	43	0.11	2,482	6.40	77,556,882
Central Of Georgia Railroad Company	—	0.00	103	11.59	—	0.00	103	11.59	1,777,341
Chesapeake And Ohio Railway Company	1	0.01	1,195	8.33	24	0.17	1,220	8.50	28,699,181
Chicago And North Western	1	0.01	741	6.29	17	0.14	759	6.44	23,574,788
Chicago, Milw, St. Paul And Pacific	1	0.02	475	9.93	—	0.00	476	9.95	9,570,956
Cincinnati, New Orleans And TX Pac Co.	—	0.00	51	6.86	—	0.00	51	6.86	1,485,963
Consolidated Rail Corporation	6	0.02	3,526	9.44	68	0.18	3,600	9.64	74,665,099
Delaware And Hudson Railway	—	0.00	161	11.27	7	0.49	168	11.76	2,856,549
Denver And Rio Grande Western RR Co.	1	0.03	121	3.78	—	0.00	122	3.81	6,407,157
Duluth, Missabe And Iron Range Rwy Co.	—	0.00	86	8.40	—	0.00	86	8.40	2,047,701
Elgin, Joliet And Eastern Railway Co.	—	0.00	84	6.04	—	0.00	84	6.04	2,782,944
Florida East Coast Railway Co.	—	0.00	27	2.42	—	0.00	27	2.42	2,229,991
Grand Trunk Western Railroad Co.	—	0.00	599	17.36	1	0.03	600	17.39	6,902,080
Illinois Central Gulf Railroad Co.	2	0.02	950	9.15	2	0.02	954	9.19	20,765,085
Kansas City Southern Railway Co.	—	0.00	113	8.39	—	0.00	113	8.39	2,693,469
Louisiana And Arkansas Rwy Company	—	0.00	65	5.35	—	0.00	65	5.35	2,429,406
Missouri Pacific Railroad Co.	6	0.03	1,977	11.31	21	0.12	2,004	11.47	34,951,450
Missouri-Kansas-Texas Railroad Co.	—	0.00	168	6.00	2	0.07	170	6.07	5,598,648
Norfolk And Western Railway Co.	3	0.02	1,905	10.80	2	0.01	1,910	10.83	35,279,947
Pittsburg And Lake Erie Railroad Co.	—	0.00	111	11.57	—	0.00	111	11.57	1,918,112
Seaboard System Railroad	3	0.01	3,013	10.50	19	0.07	3,035	10.58	57,389,007
Soo Line Railroad Company	—	0.00	302	7.85	3	0.08	305	7.93	7,689,507
Southern Pacific Transportation Co.	3	0.01	2,106	8.40	77	0.31	2,186	8.72	50,148,829
Southern Railway Company	2	0.01	1,110	7.22	11	0.07	1,123	7.30	30,755,502
St. Louis Southwestern Railway Co.	3	0.08	268	7.13	9	0.24	280	7.44	7,522,473
Union Pacific Railroad Co.	1	0.00	1,481	7.02	29	0.14	1,511	7.16	42,207,810
Total Class I Railroads.....	50	0.02	27,623	8.33	366	0.11	28,039	8.45	663,496,131
Class I Railroads	50	0.02	27,623	8.33	366	0.11	28,039	8.45	663,496,131
Class II Railroads	2	0.04	617	12.73	11	0.23	630	13.00	9,693,034
Class III Railroads	7	0.02	4,572	13.14	175	0.50	4,754	13.66	69,613,265
Total All Railroads.....	59	0.02	32,812	8.83	552	0.15	33,423	9.00	742,802,430

NOTE: Manhours for Class I railroads were obtained from the Interstate Commerce Commission. Manhours contained on annual reports filed with the FRA for individual railroads were used whenever these railroads filed as a consolodated system on the ICC report.

"Rate" is the frequency per 200,000 manhous.

TABLE 44. SUMMARY OF NONFATAL INJURIES TO EMPLOYEES ON DUTY BY RAILROAD

Railroad	Total Cases	Cases With Days Away From Work Or Days Of Restriction: Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	39	18	11	7	139	66	21
Amtrak (National RR Passenger Corp)	1,681	1,198	727	471	10,112	3,053	483
Atchison, Topeka And Santa Fe Rwy Co.	1,319	795	593	202	7,695	3,677	524
Baltimore And Ohio Railroad Co.	1,214	881	320	561	3,548	6,950	333
Bessemer And Lake Erie Railroad Co.	24	12	12	---	226	---	12
Boston And Maine Corporation	181	128	81	47	1,480	377	53
Burlington Northern Incorporated	2,427	1,509	1,480	29	14,570	226	918
Central Of Georgia Railroad Company	103	42	31	11	1,016	97	61
Chesapeake And Ohio Railway Company	1,195	854	377	477	4,770	4,599	341
Chicago And North Western	741	497	239	258	5,374	3,211	244
Chicago, Milw, St. Paul And Pacific	475	398	376	22	6,634	412	77
Cincinnati, New Orleans And TX Pac Co	51	21	12	9	187	41	30
Consolidated Rail Corporation	3,526	2,691	732	1,959	27,551	31,165	835
Delaware And Hudson Railway	161	119	77	42	1,580	376	42
Denver And Rio Grande Western RR Co	121	93	92	1	2,163	2	28
Duluth, Missabe And Iron Range Rwy Co	86	51	43	8	488	137	35
Elgin, Joliet And Eastern Railway Co	84	51	51	---	980	---	33
Florida East Coast Railway Co.	27	11	2	9	7	115	16
Grand Trunk Western Railroad Co.	599	402	151	251	5,423	4,496	197
Illinois Central Gulf Railroad Co.	950	606	258	348	7,136	6,428	344
Kansas City Southern Railway Co.	113	87	87	---	1,615	---	26
Louisiana And Arkansas Rwy Company	65	60	60	---	996	14	5
Missouri Pacific Railroad Co.	1,977	1,332	687	645	26,891	10,907	645
Missouri-Kansas-Texas Railroad Co.	168	95	94	1	1,596	53	73
Norfolk And Western Railway Co.	1,905	498	410	88	12,434	919	1,407
Pittsburg And Lake Erie Railroad Co.	111	45	44	1	1,419	10	66
Seaboard System Railroad	3,013	2,420	541	1,879	6,866	18,449	593
Soo Line Railroad Company	302	209	206	3	3,691	148	93
Southern Pacific Transportation Co.	2,106	1,461	665	796	12,494	10,450	645
Southern Railway Company	1,110	506	259	247	4,984	2,028	604
St. Louis Southwestern Railway Co.	268	191	61	130	1,078	2,231	77
Union Pacific Railroad Co.	1,481	1,039	316	723	5,549	7,251	442
Total Class I Railroads	27,623	18,320	9,095	9,225	180,692	117,888	9,303
CLASS II RAILROADS							
Bangor And Aroostook Railroad Co.	32	23	23	---	338	---	9
Canadian Pacific Lines In Maine	7	1	1	---	30	---	6
Carolina And Northwestern Rwy Company	2	2	2	---	17	---	---
Central Vermont Railway Inc.	15	10	10	---	348	---	5
Chicago And Illinois Midland Rwy Co.	50	35	34	1	338	10	15
Chicago South Shore And South Bend RR	26	26	26	---	102	---	---
Duluth, Winnipeg And Pacific Rwy Co.	13	13	3	10	34	60	---
Georgia Southern And Florida Railway	28	7	7	---	165	---	21
Green Bay And Western Railroad	25	25	25	---	408	---	---
Maine Central Railroad Company	80	66	53	13	916	182	14
Michigan Interstate Railroad	6	5	5	---	45	---	1
Monongahela Railway	24	15	13	2	296	3	9
Northwestern Pacific Railroad	12	10	4	6	94	82	2
Oklahoma, Kansas Texas Railroad	23	12	12	---	130	---	11
Richmond, Fredericksburg And Potomac	124	69	68	1	1,077	26	55
Spokane International Railroad	1	1	---	1	---	5	---
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	149	70	65	5	435	34	79
Total Class II Railroads	617	390	351	39	4,773	402	227
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
Class I Railroads	27,623	18,320	9,095	9,225	180,692	117,888	9,303
Class II Railroads	617	390	351	39	4,773	402	227
Class III Railroads	4,572	3,453	3,049	404	42,465	5,031	1,119
Total All Railroads	32,812	22,163	12,495	9,668	227,930	123,321	10,649

TABLE 45. SUMMARY OF EMPLOYEE ON DUTY CASUALTIES BY REPORTABILITY CRITERIA AND RAILROAD

Railroad	Total Cases	Fatalities	Total Injuries	.Injuries Reported For Following Reasons. Days Away From Work	Restricted Activity	Medication	Medical Treatment	Occupational Illness
CLASS I RAILROADS								
Alabama Great Southern Railroad Co.....	39	---	39	11	7	---	21	---
Amtrak (National RR Passenger Corp).....	1,698	1	1,681	727	471	139	344	16
Atchison, Topeka And Santa Fe Rwy Co.....	1,332	2	1,319	593	202	191	333	11
Baltimore And Ohio Railroad Co.....	1,219	2	1,214	320	561	37	296	3
Bessemer And Lake Erie Railroad Co.....	24	---	24	12	---	2	10	---
Boston And Maine Corporation.....	182	---	181	81	47	7	46	1
Burlington Northern Incorporated.....	2,482	12	2,427	1,480	29	287	631	43
Central Of Georgia Railroad Company.....	103	---	103	31	11	7	54	---
Chesapeake And Ohio Railway Company.....	1,220	1	1,195	377	477	50	291	24
Chicago And North Western.....	759	1	741	239	258	122	122	17
Chicago, Milw, St. Paul And Pacific.....	476	1	475	376	22	53	24	---
Cincinnati, New Orleans And TX Pac Co....	51	---	51	12	9	2	28	---
Consolidated Rail Corporation.....	3,600	6	3,526	732	1,959	278	557	68
Delaware And Hudson Railway.....	168	---	161	77	42	14	28	7
Denver And Rio Grande Western RR Co.....	122	1	121	92	1	4	24	---
Duluth, Missabe And Iron Range Rwy Co....	86	---	86	43	8	13	22	---
Elgin, Joliet And Eastern Railway Co.....	84	---	84	51	---	4	29	---
Florida East Coast Railway Co.....	27	---	27	2	9	1	15	---
Grand Trunk Western Railroad Co.....	600	---	599	151	251	12	185	1
Illinois Central Gulf Railroad Co.....	954	2	950	258	348	16	328	2
Kansas City Southern Railway Co.....	113	---	113	87	---	3	23	---
Louisiana And Arkansas Rwy Company.....	65	---	65	60	---	---	5	---
Missouri Pacific Railroad Co.....	2,004	6	1,977	687	645	79	566	21
Missouri-Kansas-Texas Railroad Co.....	170	---	168	94	1	35	38	2
Norfolk And Western Railway Co.....	1,910	3	1,905	410	88	180	1,227	2
Pittsburg And Lake Erie Railroad Co.....	111	---	111	44	1	66	---	---
Seaboard System Railroad.....	3,035	3	3,013	541	1,879	230	363	19
Soo Line Railroad Company.....	305	---	302	206	3	35	58	3
Southern Pacific Transportation Co.....	2,186	3	2,106	665	796	---	645	77
Southern Railway Company.....	1,123	2	1,110	259	247	34	570	11
St. Louis Southwestern Railway Co.....	280	3	268	61	130	---	77	9
Union Pacific Railroad Co.....	1,511	1	1,481	316	723	158	284	29
Total Class I Railroads.....	28,039	50	27,623	9,095	9,225	2,059	7,244	366
RECAPITULATION								
Class I Railroads.....	28,039	50	27,623	9,095	9,225	2,059	7,244	366
Class II Railroads.....	630	2	617	351	39	74	153	11
Class III Railroads.....	4,754	7	4,572	3,049	404	167	952	175
Total All Railroads.....	33,423	59	32,812	12,495	9,668	2,300	8,349	552

7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

FIGURE 28. FATALITIES: RAIL-HIGHWAY CROSSINGS AND OTHER

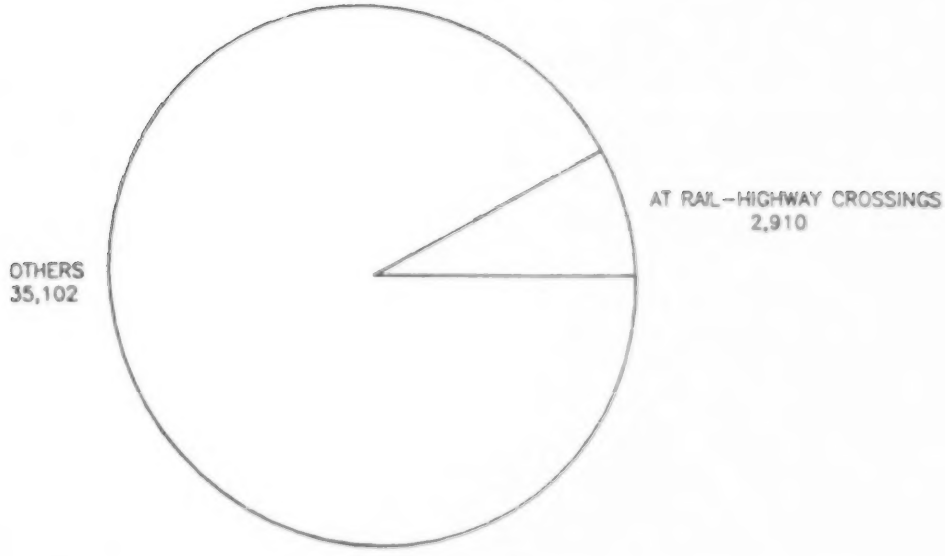


FIGURE 29. INJURIES: RAIL-HIGHWAY CROSSINGS AND OTHER

TABLE 46. FATALITIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Fatal A/I	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS										
Class I Railroads.....	166	14	25	13	4	17	---	4	---	4
Class II Railroads.....	3	1	1	1	---	1	---	---	---	---
Class III Railroads.....	21	1	1	1	---	1	---	---	---	---
Total All Railroads.....	190	16	27	15	4	19	---	4	---	4
TRAIN INCIDENTS										
Class I Railroads.....	5,272	439	451	10	8	18	2	2	12	417
Class II Railroads.....	115	8	8	---	---	---	---	---	1	7
Class III Railroads.....	626	56	56	2	3	5	---	5	4	42
Total All Railroads.....	6,013	503	515	12	11	23	2	7	17	466
NONTRAIN INCIDENTS										
Class I Railroads.....	23,931	41	42	---	12	12	1	1	7	21
Class II Railroads.....	528	1	1	---	1	1	---	---	---	---
Class III Railroads.....	4,726	13	13	---	1	1	---	---	4	8
Total All Railroads.....	29,185	55	56	---	14	14	1	1	11	29
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,352	504	619	3	---	3	2	---	535	79
Class II Railroads.....	40	9	11	---	---	---	---	---	9	2
Class III Railroads.....	123	18	19	---	---	---	---	---	11	8
Total All Railroads.....	2,515	531	649	3	---	3	2	---	555	89
GRAND TOTAL										
Class I Railroads.....	31,721	998	1,137	26	24	50	5	7	554	521
Class II Railroads.....	686	19	21	1	1	2	---	---	10	9
Class III Railroads.....	5,496	88	89	3	4	7	---	5	19	58
Total All Railroads.....	37,903	1,105	1,247	30	29	59	5	12	583	588

NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

TABLE 47. INJURIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Injury A/I	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS										
Class I Railroads.....	166	150	335	206	61	267	2	55	5	6
Class II Railroads.....	3	2	10	6	—	6	—	4	—	—
Class III Railroads.....	21	19	346	23	6	29	—	317	—	—
Total All Railroads.....	190	171	691	235	67	302	2	376	5	6
TRAIN INCIDENTS										
Class I Railroads.....	5,272	4,780	4,859	3,631	623	4,254	12	122	50	421
Class II Railroads.....	115	105	105	88	14	102	—	—	1	2
Class III Railroads.....	626	563	565	418	62	480	2	33	10	40
Total All Railroads.....	6,013	5,448	5,529	4,137	699	4,836	14	155	61	463
NONTRAIN INCIDENTS										
Class I Railroads.....	23,931	23,616	23,802	5,409	17,533	22,942	389	137	271	63
Class II Railroads.....	528	518	520	103	406	509	3	6	2	—
Class III Railroads.....	4,726	4,551	4,560	892	3,158	4,050	31	291	174	14
Total All Railroads.....	29,185	28,685	28,882	6,404	21,097	27,501	423	434	447	77
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,352	1,848	2,714	122	38	160	2	29	2,329	194
Class II Railroads.....	40	31	47	—	—	—	—	—	46	1
Class III Railroads.....	123	105	149	12	1	13	—	6	98	32
Total All Railroads.....	2,515	1,984	2,910	134	39	173	2	35	2,473	227
GRAND TOTAL										
Class I Railroads.....	31,721	30,394	31,710	9,368	18,255	27,623	405	343	2,655	684
Class II Railroads.....	686	656	682	197	420	617	3	10	49	3
Class III Railroads.....	5,496	5,238	5,620	1,345	3,227	4,572	33	647	282	86
Total All Railroads.....	37,903	36,288	38,012	10,910	21,902	32,812	441	1,000	2,986	773

NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

TABLE 48. ILLNESSES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Illness A/I	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS										
Class I Railroads.....	166	2	5	5	—	5	—	—	—	—
Class II Railroads.....	3	—	—	—	—	—	—	—	—	—
Class III Railroads.....	21	1	4	4	—	4	—	—	—	—
Total All Railroads.....	190	3	9	9	—	9	—	—	—	—
TRAIN INCIDENTS										
Class I Railroads.....	5,272	53	73	70	3	73	—	—	—	—
Class II Railroads.....	115	2	2	2	—	2	—	—	—	—
Class III Railroads.....	626	7	8	8	—	8	—	—	—	—
Total All Railroads.....	6,013	62	83	80	3	83	—	—	—	—
NONTRAIN INCIDENTS										
Class I Railroads.....	23,931	274	291	56	232	288	2	—	1	—
Class II Railroads.....	528	9	11	4	5	9	—	—	2	—
Class III Railroads.....	4,726	162	164	17	146	163	1	—	—	—
Total All Railroads.....	29,185	445	466	77	383	460	3	—	3	—
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,352	—	—	—	—	—	—	—	—	—
Class II Railroads.....	40	—	—	—	—	—	—	—	—	—
Class III Railroads.....	123	—	—	—	—	—	—	—	—	—
Total All Railroads.....	2,515	—	—	—	—	—	—	—	—	—
GRAND TOTAL										
Class I Railroads.....	31,721	329	369	131	235	366	2	—	1	—
Class II Railroads.....	686	11	13	6	5	11	—	—	2	—
Class III Railroads.....	5,496	170	176	29	146	175	1	—	—	—
Total All Railroads.....	37,903	510	538	166	386	552	3	—	3	—

NOTE: Column 1 is the count of accidents/incidents resulting in at least one reportable casualty.

TABLE 49. NATURE OF INJURIES BY TYPE OF ACCIDENT/INCIDENT

Type of Accident/Incident	Amputations						Fractures					
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
TRAIN ACCIDENTS												
Collisions	---	---	1	---	---	1	2	1	7	---	8	18
Derailments	---	---	---	---	1	1	3	2	6	1	19	31
Rail-highway x-ing	---	---	---	---	---	---	7	2	8	---	14	31
Miscellaneous	---	---	---	---	---	---	---	---	---	---	4	4
Total	---	---	1	---	1	2	12	5	21	1	45	84
TRAIN INCIDENTS												
Coupling and uncoupling locomotives or	2	2	1	---	---	5	6	6	5	2	7	26
Coupling/uncoupling air/steam hose, saf	---	1	1	1	---	3	2	---	---	1	1	4
Operating or on locomotives	---	1	---	1	---	2	5	8	3	1	7	24
Operating rail motorcars	---	---	---	---	---	---	---	1	3	---	1	5
Operating hand brakes	---	---	1	---	---	1	3	1	1	---	1	6
Operating switches or derails	---	1	---	---	---	1	---	---	1	---	2	3
Contacting fixed objects while on loco	---	---	1	---	---	1	1	1	2	2	9	15
Getting on or off cars or locomotives.	6	3	45	3	1	58	22	7	36	5	22	92
Collisions, derailments, etc. (<= $4,5	---	1	1	1	---	3	2	1	5	---	5	13
Rail-highway crossing accidents/incide	2	1	5	1	---	9	47	5	94	---	181	327
Struck by/ran into loco/car(not at rr-	11	4	73	8	2	98	24	---	25	1	38	88
Servicing or maintenance of equipment.	1	---	1	---	---	2	1	7	4	6	2	20
Maintenance of way and structures	1	---	---	1	---	2	9	3	13	7	7	41
Freight, baggage, express or mail	---	---	---	---	---	---	---	1	1	1	---	3
Windows, doors, etc., on on-track equi	---	2	---	---	---	2	2	11	---	---	---	13
Passenger car doors	---	1	---	---	---	1	1	1	---	---	---	2
Stumbling, slipping, falling, caught,	---	1	4	1	---	6	1	4	15	1	7	28
Flying or falling objects, burns, etc.	---	1	---	---	---	1	1	1	---	1	---	3
Operation of on-track work equipment..	---	---	---	---	---	---	---	2	4	2	7	15
Assault	---	---	---	---	---	---	1	1	---	---	6	8
Other occurrences	1	1	3	3	---	8	9	8	10	1	28	56
Total	24	20	136	20	3	203	137	69	224	31	331	792
NONTRAIN INCIDENTS												
Coupling and uncoupling locomotives or	---	1	---	---	---	1	4	14	9	9	3	39
Coupling/uncoupling air/steam hose, saf	---	---	1	---	---	1	6	9	2	1	5	23
Operating or on locomotives	---	1	---	---	---	1	6	17	3	1	6	33
Operating rail motorcars	---	---	---	---	---	---	1	1	---	---	1	3
Operating hand brakes	---	---	1	1	---	2	12	15	1	2	7	37
Operating switches or derails	---	---	---	---	---	---	9	12	8	14	7	50
Contacting fixed objects while on loco	---	---	---	---	---	---	1	---	---	---	1	2
Getting on or off cars or locomotives.	---	1	1	---	---	2	27	10	47	2	24	110
Collisions, derailments, etc. (<= $4,5	---	---	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incide	---	---	---	---	---	---	2	---	6	---	10	18
Struck by/ran into loco/car(not at rr-	1	---	---	1	---	2	1	---	7	---	---	8
Servicing or maintenance of equipment.	---	7	---	2	---	9	73	221	73	89	67	523
Maintenance of way and structures	---	28	---	2	---	30	120	364	216	172	115	987
Freight, baggage, express or mail	---	1	---	---	---	1	1	1	---	---	1	3
Windows, doors, etc., on on-track equi	---	2	---	---	---	2	6	45	3	4	8	66
Passenger car doors	---	---	---	---	---	---	1	2	---	---	1	4
Stumbling, slipping, falling, caught,	---	1	---	---	---	1	76	23	101	19	60	279
Flying or falling objects, burns, etc.	---	1	---	---	---	1	3	3	2	11	8	27
Operation of on-track work equipment..	---	1	---	---	---	1	4	5	6	1	5	21
Assault	---	---	---	---	---	---	3	4	---	---	9	16
Other occurrences	---	4	2	---	---	6	23	42	31	16	41	153
Total	1	48	5	6	---	60	381	788	515	341	379	2,404
Grand Total	25	68	142	26	4	265	530	862	760	373	755	3,280

TABLE 49. (CONTINUED)

Type of Accident/Incident	Other Injuries: Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Dislocation	Object In Eye	Other	Total	Total Injured
TRAIN ACCIDENTS										
Collisions	98	67	9	---	2	---	---	230	406	425
Derailments	67	74	18	---	---	1	1	18	179	211
Rail-highway x-ing	68	37	26	---	10	2	---	19	162	193
Miscellaneous	15	18	8	---	---	---	---	10	51	55
Total	248	196	61	---	12	3	1	277	798	884
TRAIN INCIDENTS										
Coupling and uncoupling locomotives or	75	162	26	---	3	---	9	11	286	317
Coupling/uncoupling air/steam hose, saf	20	10	9	---	---	1	---	2	42	49
Operating or on locomotives	144	217	60	3	2	2	315	43	786	812
Operating rail motorcars	11	12	6	---	---	---	1	2	32	37
Operating hand brakes	36	56	13	---	---	1	2	3	111	118
Operating switches or derails	6	24	1	---	---	---	4	1	36	40
Contacting fixed objects while on loco	43	17	18	---	---	---	6	4	90	106
Getting on or off cars or locomotives.	287	613	107	---	---	10	3	26	1,046	1,196
Collisions, derailments, etc. (<= $4,5	33	78	8	---	---	---	---	4	123	139
Rail-highway crossing accidents/incids	756	201	741	---	1	9	2	587	2,297	2,633
Struck by/ran into loco/car(not at rr-	70	16	88	---	---	2	---	59	235	421
Servicing or maintenance of equipment.	36	35	23	---	---	1	---	3	98	120
Maintenance of way and structures	60	38	31	---	1	---	1	9	140	183
Freight, baggage, express or mail	9	13	3	---	---	---	1	4	30	33
Windows, doors, etc., on on-track equi	42	26	41	---	---	---	3	1	113	128
Passenger car doors	4	---	5	---	---	---	---	---	9	12
Stumbling, slipping, falling, caught,	80	115	32	---	2	4	---	5	238	272
Flying or falling objects, burns, etc.	20	5	89	1	17	---	297	43	472	476
Operation of on-track work equipment	36	62	15	---	---	---	---	6	119	134
Assault	32	7	41	---	---	---	15	20	115	123
Other occurrences	288	308	88	1	4	4	13	43	749	813
Total	2,090	2,015	1,445	5	30	34	672	876	7,167	8,162
NONTRAIN INCIDENTS										
Coupling and uncoupling locomotives or	124	485	44	1	---	4	13	30	701	741
Coupling/uncoupling air/steam hose, saf	86	122	54	---	2	2	10	15	291	315
Operating or on locomotives	110	172	57	8	11	2	94	32	486	520
Operating rail motorcars	6	60	5	---	---	---	---	1	72	75
Operating hand brakes	91	302	44	---	1	4	5	12	459	498
Operating switches or derails	138	1,040	40	---	---	5	10	40	1,273	1,323
Contacting fixed objects while on loco	8	7	9	---	---	---	---	1	25	27
Getting on or off cars or locomotives.	376	765	100	---	1	18	1	45	1,306	1,418
Collisions, derailments, etc. (<= $4,5	---	---	---	---	---	---	---	---	---	---
Rail-highway crossing accidents/incids	13	8	20	---	---	1	1	23	66	84
Struck by/ran into loco/car(not at rr-	7	5	8	---	---	---	---	3	23	33
Servicing or maintenance of equipment.	1,221	2,469	1,203	95	236	19	483	348	6,074	6,606
Maintenance of way and structures	1,935	4,339	1,770	21	178	66	520	677	9,526	10,543
Freight, baggage, express or mail	21	84	8	---	---	3	---	11	127	131
Windows, doors, etc., on on-track equi	155	155	112	---	1	1	5	11	440	508
Passenger car doors	37	7	5	---	---	---	---	2	51	55
Stumbling, slipping, falling, caught,	627	1,359	247	1	---	26	3	91	2,354	2,634
Flying or falling objects, burns, etc.	56	19	81	24	45	---	333	59	617	645
Operation of on-track work equipment	33	80	11	---	---	---	---	3	127	149
Assault	75	35	45	---	---	1	4	22	202	218
Other occurrences	396	941	293	4	19	14	30	585	2,282	2,443
Total	5,535	12,474	4,156	154	494	166	1,512	2,011	26,502	28,966
Grand Total	7,873	14,685	5,662	159	536	203	2,185	3,164	34,467	38,012

TABLE 50. NATURE OF INJURIES BY TYPE OF PERSON

Type Person	Amputations						Fractures					
	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total	Arm/ Hand	Finger	Leg/ Foot	Toe	Other Part	Total
EMPLOYEES ON DUTY												
YARD SERVICE:												
Engineers and Motormen	—	—	—	1	—	1	9	6	2	1	3	21
Firemen and Helpers	—	—	—	—	—	—	1	4	—	—	—	5
Conductors and Foremen	—	3	1	—	—	4	6	8	8	5	3	30
Brakemen and Helpers	1	4	1	1	—	7	33	37	39	21	26	156
Total.....	1	7	2	2	—	12	49	55	49	27	32	212
FREIGHT SERVICE:												
Engineers and Motormen	—	1	1	—	—	2	12	9	14	2	19	56
Firemen and Helpers	—	—	—	—	—	—	2	4	1	1	2	10
Conductors and Foremen	—	—	1	2	1	4	19	9	18	5	37	88
Brakemen and Helpers	1	3	5	2	1	12	36	40	41	15	48	180
Total.....	1	4	7	4	2	18	69	62	74	23	106	334
PASSENGER SERVICE:												
Engineers and Motormen	—	1	—	—	—	1	4	3	1	—	2	10
Firemen and Helpers	—	1	—	—	—	1	—	—	—	—	—	—
Conductors and Foremen	—	—	—	—	—	—	1	5	6	3	6	21
Baggagemen	—	—	—	—	—	—	1	—	—	—	—	1
Brakemen and Helpers	—	1	—	—	—	1	2	4	—	—	5	11
Total.....	—	3	—	—	—	3	8	12	7	3	13	43
HOSTLERS	—	—	—	—	—	—	1	3	—	2	2	8
--SUMMARY--												
Total employees on duty	4	58	13	11	2	88	402	828	520	356	437	2,543
Employees not on duty	—	—	—	—	—	—	15	9	27	7	24	82
Passengers	—	1	2	—	—	3	12	8	33	4	33	90
Nontrespassers	2	2	6	3	—	13	65	17	121	5	207	415
Trespassers	19	7	121	12	2	161	36	—	59	1	54	150
Grand total	25	68	142	26	4	265	530	862	760	373	755	3,280

TABLE 50. (CONTINUED)

Type Person	Other Injuries: Bruise	Sprain/ Strain	Cut	Elec. Burn	Other Burns	Dislocation	Object In Eye	Other	Total	Total Injured
EMPLOYEES ON DUTY										
YARD SERVICE:										
Engineers and Motormen	63	192	44	1	4	1	67	26	398	420
Firemen and Helpers	16	41	5	---	1	1	15	1	80	85
Conductors and Foremen	113	298	48	---	1	5	53	38	556	590
Brakemen and Helpers	616	1,669	276	3	18	13	258	122	2,975	3,138
Total.....	808	2,200	373	4	24	20	393	187	4,009	4,233
FREIGHT SERVICE:										
Engineers and Motormen	124	288	81	3	9	4	147	48	704	762
Firemen and Helpers	36	61	20	1	---	1	26	11	156	166
Conductors and Foremen	279	509	114	---	2	6	82	77	1,069	1,161
Brakemen and Helpers	664	1,456	284	1	19	15	267	151	2,857	3,049
Total.....	1,103	2,314	499	5	30	26	522	287	4,786	5,138
PASSENGER SERVICE:										
Engineers and Motormen	47	81	24	3	4	3	25	16	203	214
Firemen and Helpers	2	9	4	---	---	---	1	1	17	18
Conductors and Foremen	173	211	61	3	3	---	48	30	529	550
Baggagemen	2	4	4	---	---	---	---	1	11	12
Brakemen and Helpers	28	47	14	---	---	---	8	5	102	114
Total.....	252	352	107	6	7	3	82	53	862	908
HOSTLERS	43	114	17	---	2	2	16	16	210	218
										218
--SUMMARY--										
Total employees on duty	6,510	14,076	4,508	144	513	172	2,159	2,099	30,181	32,812
Employees not on duty	78	173	50	---	5	7	9	37	359	441
Passengers	347	134	109	1	2	5	5	304	907	1,000
Nontrespassers	836	274	830	6	14	16	12	570	2,558	2,986
Trespassers	102	28	165	8	2	3	---	154	462	773
Grand total	7,873	14,685	5,662	159	536	203	2,185	3,164	34,467	38,012

EMPLOYEE CASUALTIES

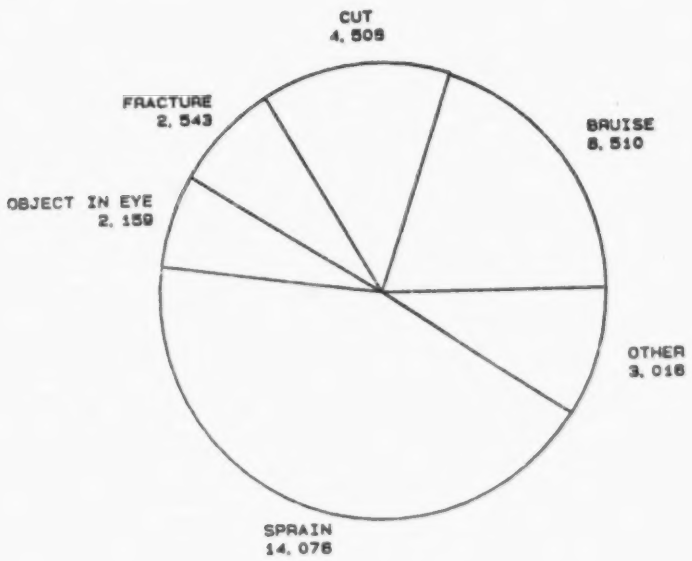


FIGURE 30.
INJURIES TO EMPLOYEES ON DUTY

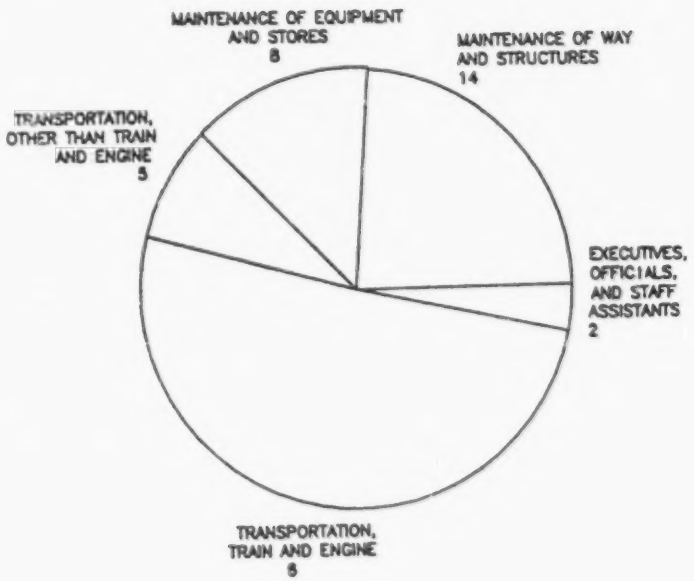


FIGURE 31A.
FATALITIES BY EMPLOYEE JOB CATEGORY

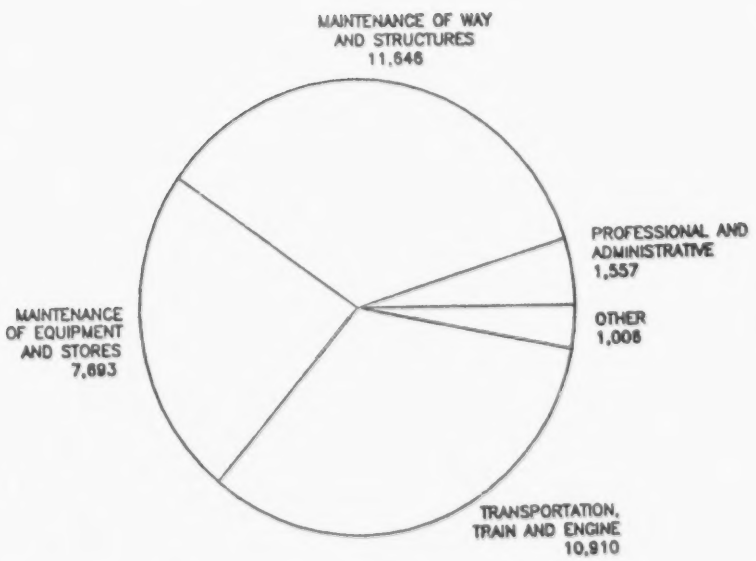


FIGURE 31B.
INJURIES BY EMPLOYEE JOB CATEGORY

TABLE 51. EMPLOYEE ON DUTY CASUALTIES BY TYPE OF CASUALTY

Type/Location Of Casualty		Total Cases	Cases With Days Away From Work Or Days Of Restriction: Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
INJURIES								
Bruise - Contusion--	Arm or hand.	1,136	786	336	450	3,973	4,104	350
	Fingers.....	773	390	155	235	1,956	1,829	383
	Leg or foot.	2,139	1,609	829	780	10,507	7,430	530
	Toes.....	222	150	68	82	664	577	72
	Torso.....	1,512	1,158	713	445	13,002	6,311	354
	Other parts.	728	520	342	178	4,856	1,633	208
Sprain - Strain--	Arm or hand.	1,179	853	392	461	5,760	5,921	326
	Fingers.....	226	155	73	82	953	792	71
	Leg or foot.	3,355	2,868	1,637	1,231	27,864	16,137	487
	Toes.....	23	19	4	15	124	96	4
	Torso.....	8,282	6,632	3,912	2,720	72,828	36,458	1,650
	Other parts.	1,011	774	474	300	8,909	3,487	237
Cut or Laceration--	Arm or hand.	844	356	162	194	1,955	1,843	488
	Fingers.....	1,439	564	212	352	2,287	3,894	875
	Leg or foot.	605	316	176	140	2,359	1,403	289
	Toes.....	37	24	17	7	331	76	13
	Head or Face	1,439	453	279	174	3,830	1,590	986
	Torso.....	85	44	25	19	558	347	41
	Other parts.	59	28	19	9	195	108	31
Electrical burn or shock.....		144	91	70	21	677	155	53
Other burns.....		513	266	156	110	2,397	844	247
Dislocation.....		172	136	75	61	2,358	1,135	36
Fracture--	Arm or hand.	402	332	196	136	6,930	5,051	70
	Fingers.....	828	559	226	333	3,733	6,560	269
	Leg or foot.	520	478	359	119	15,349	4,882	42
	Toes.....	356	264	126	138	2,736	2,561	92
	Head or Face	99	69	55	14	1,708	206	30
	Torso.....	312	267	193	74	8,210	2,035	45
	Other parts.	26	23	13	10	993	220	3
Amputation--	Arm or hand.	4	4	4	---	683	---	---
	Fingers.....	58	54	43	11	1,299	690	4
	Leg or foot.	13	13	13	---	2,850	150	---
	Toes.....	11	11	11	---	726	30	---
	Other parts.	2	2	2	---	300	---	---
Dust or other object in eye.....		2,159	907	449	458	2,058	1,506	1,252
Hernia.....		185	168	145	23	4,613	647	17
Concussion.....		80	68	58	10	1,650	165	12
Nervous shock.....		16	10	10	---	70	11	6
Internal injuries.....		31	26	19	7	705	124	5
Loss of eye.....		1	1	1	---	82	---	---
Puncture type wound.....		570	236	157	79	1,246	622	334
Dental related injuries.....		144	30	19	11	109	99	114
Skin reaction (one-time exposure		186	68	57	11	229	43	118
Not otherwise classified.....		886	381	213	168	3,308	1,549	505
Total nonfatal injuries.....		32,812	22,163	12,495	9,668	227,930	123,321	10,649
ILLNESSES								
Skin diseases or disorders.....		192	88	69	19	302	124	104
Dust diseases of the lungs.....		4	---	---	---	---	---	4
Respiratory conditions.....		162	98	83	15	586	355	64
Poisoning.....		19	15	13	2	126	6	4
Disorders due to physical agents		106	54	33	21	162	106	52
Disorders due to repeated trauma		17	14	10	4	293	31	3
All other occupational illnesses		52	27	19	8	323	68	25
Total nonfatal illnesses.....		552	296	227	69	1,792	690	256

FATALITIES	
Fatal injuries.....	59
Fatal illnesses.....	---
Total fatalities..	59

TABLE 52. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

	Killed	Injured	Illness	Total
EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS				
Executives and general officers	1	9	---	10
Corporate staff managers	---	58	2	60
Regional and division officers, assistants and staff assistants	1	26	---	27
Transportation officers/managers	---	12	---	12
Subtotal	2	105	2	109
PROFESSIONAL AND ADMINISTRATIVE				
Professional and administrative (miscellaneous)	---	26	---	26
Professional	---	12	---	12
Subprofessionals	---	18	---	18
Auditors, traveling auditors or accountants	---	10	---	10
General and administrative supervisors	---	55	---	55
Sales and traffic representatives and agents	---	15	---	15
Freight and other claim agents and investigators	---	14	---	14
Supervising and chief claim agents	---	2	---	2
Lieutenants and sergeants of police	---	63	---	63
Police officers, watchmen and guards (except crossing & bridge)	---	280	4	284
Inspectors, (except MOW & MOE), other investigators, examiners, etc	---	10	---	10
Buyers, and sales agents	---	16	---	16
Clerical technicians and clerical specialists	---	76	1	77
Office machine and data equipment operators	---	41	---	41
Secretaries, stenographers, and typists	---	53	1	54
General and other clerks (except yard clerk and crew dispatcher)	---	482	7	489
Telephone and switchboard operators	---	4	---	4
Building and office attendants	---	108	6	114
Messengers and office persons	---	18	---	18
Motor vehicle operators	---	254	6	260
Subtotal	---	1,557	25	1,582
MAINTENANCE OF WAY AND STRUCTURES				
Maintenance of way and structures (miscellaneous)	---	14	---	14
Supervisors, maintenance of way, structures, communication & signls	---	99	4	103
Maintenance of way, structures, comm. & signals, & scale inspectors	---	84	---	84
Bridge and building gang foreman	---	135	3	138
Bridge and building carpenters	2	649	23	674
Bridge and building ironworkers	---	115	4	119
Bridge and building painters	---	51	1	52
Masons, bricklayers, plasterers, and plumbers	1	371	10	382
Bridge and building helpers and apprentices	---	332	7	339
Bridge and building gang and bridge and building dept laborers	---	131	3	134
Track gang foremen (extra gang work train laborers)	1	220	4	225
Gang or section foreman	---	770	20	790
Extra gang laborers	1	1,960	30	1,991
Section laborers	3	3,884	64	3,951
Machine operators	5	1,572	24	1,601
Gang foremen, communications and signals	---	66	3	69
Signalmen and signal maintainers	1	675	23	699
Linemen and groundmen and communications craftsman	---	253	12	265
Assistant signalmen and assistant signal maintainers	---	133	6	139
Signal helpers and signal maintainer helpers	---	107	2	109
Camp car cooks	---	25	1	26
Subtotal	14	11,646	244	11,904
MAINTENANCE OF EQUIPMENT AND STORES				
Maintenance of equipment and stores (miscellaneous)	---	35	3	38
Supervisors and general foreman, maintenance of equipment	2	93	2	97
Supervisors and general foremen, materials and stores	---	14	---	14
Equipment, shop, electrical inspectors	---	48	3	51
Materials and supplies inspectors	---	3	---	3
Storekeeper	---	42	1	43
Gang foremen, maintenance of equipment	---	155	2	157

TABLE 52. (CONTINUED)

	Killed	Injured	Illness	Total
MAINTENANCE OF EQUIPMENT AND STORES				
Blacksmiths	---	58	2	60
Boilermakers	---	148	2	150
Carmen (freight)	1	1,705	19	1,725
Carmen (other)	2	1,374	8	1,384
Electrical workers (A)	---	806	15	821
Electrical workers (B)	---	40	2	42
Electrical workers (C)	---	20	---	20
Machinists	---	1,449	20	1,469
Sheet metal workers	---	288	5	293
Skilled trades, helpers, maintenance of equipment and stores	1	173	1	175
Apprentices, maintenance of equipment and stores	---	94	2	96
Coach cleaners	---	234	8	242
Laborers: shops, enginehouses and power plants	1	710	7	718
Gang foremen, materials and stores	---	13	---	13
Equipment operators and general laborers, materials and stores	1	178	3	182
Stationary engineers	---	5	1	6
Stationary firemen	---	8	---	8
Subtotal	8	7,693	106	7,807
TRANSPORTATION, OTHER THAN TRAIN AND ENGINE				
Transportation, other than train and engine (miscellaneous)	---	1	---	1
Transportation supervisor and chief train dispatcher	1	4	---	5
Train dispatchers	---	15	4	19
Station, freight and passenger agents	---	51	---	51
Chief operators and wire chiefs	---	4	---	4
Clerk operators, towerman, train directors	---	89	---	89
Station masters & asstS, supervising bag. agents, bag. agents, etc.	---	16	---	16
Baggage, parcel room and station attendents	---	56	---	56
General & asst gnrl foremen,stations,warehouses,grain elev., docks.	---	4	---	4
Gang foremen, stations, warehouses, grain elevators and docks	---	7	---	7
Grain elevator, and dock laborers	1	136	3	140
Station, and warehouse laborers	---	26	---	26
Truckers (station, warehouse and platforms)	1	29	---	30
Food and lodging manager, supervisors	---	28	---	28
Transportation and dining-service inspectors	---	1	---	1
Waiters and kitchen helpers (restaurant and dining car)	---	41	---	41
Chefs and cooks (restaurant and dining car)	---	24	---	24
Marine officers and workers and shore workers	---	37	---	37
Train attendants	1	159	---	160
Bridge operators and helpers	1	16	---	17
Bridge and crossing flagmen and gatemen	---	2	---	2
Yards clerks	---	90	1	91
Crew dispatchers	---	28	---	28
Yardmasters and assistant yardmasters	---	37	1	38
Subtotal	5	901	9	915
TRANSPORTATION, TRAIN AND ENGINE				
Transportation, train and engine (miscellaneous)	---	319	4	323
Switchtenders	---	35	---	35
Car retarder operators and ground service employees	---	12	1	13
Outside hostlers	1	145	1	147
Outside hostler helpers	---	73	---	73
Inside hostler	---	47	---	47
Road passenger conductors	1	308	11	320
Assistant road passenger conductors and ticket collectors	---	242	3	245
Road freight conductors (through freight)	1	632	7	640
Road freight conductors (local and way freight)	1	529	5	535
Road passenger baggageperson	---	12	---	12
Road Passenger brakemen and flagmen	---	114	1	115
Road freight brakemen and flagmen (through freight)	5	1,600	16	1,621
Road freight brakemen and flagmen (local and way freight)	2	1,449	20	1,471
Yard conductors and yard foremen	2	590	9	601
Yard brakemen and yard helpers	4	3,138	35	3,177
Road passenger engineers and motormen	2	214	12	228
Road freight engineers (through freight)	4	450	7	461
Road freight engineers (local and way freight)	3	312	11	326
Yard engineers	---	420	16	436
Road passenger firemen and helpers	---	18	1	19
Road freight firemen and helpers (through freight)	3	110	5	118
Road freight firemen and helpers (local and way freight)	---	56	1	57
Yard firemen and helpers	1	85	---	86
Subtotal	30	10,910	166	11,106
Total	59	32,812	552	33,423

TABLE 53. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	---	1	---	1	12	14
Derailments	---	---	---	---	1	3	4
Rail-highway x-ing	---	---	---	---	---	3	3
Miscellaneous	---	---	1	---	---	---	1
Total	---	---	2	---	2	18	22
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---
Coupling/uncouplng air/steam hose, safety chains	---	---	---	---	---	1	1
Operating or on locomotives	---	---	---	---	---	1	1
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	1	1
Operating switches or derails	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	3	3
Getting on or off cars or locomotives	---	---	---	1	---	1	2
Collisions, derailments, etc. (<= $4,501)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	1	1	---	4	6
Servicing or maintenance of equipment	---	---	1	3	---	---	4
Maintenance of way and structures	---	---	1	---	---	---	1
Freight, baggage, express or mail	---	---	---	---	2	---	2
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	1	---	---	---	1
Assault	---	---	---	---	---	1	1
Other occurrences	---	---	---	---	---	---	---
Total	---	---	4	5	2	12	23
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---
Coupling/uncouplng air/steam hose, safety chains	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	---
Operating rail motorcars	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	---	---
Collisions, derailments, etc. (<= $4,501)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	---	---	---	---	---	---	---
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	---	---	1	---	---	1
Servicing or maintenance of equipment	1	---	6	1	1	---	9
Maintenance of way and structures	---	---	---	---	---	---	---
Freight, baggage, express or mail	---	---	---	---	---	---	---
Windows, doors, etc., on on-track equipment	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C	---	---	1	---	---	---	1
Operation of on-track work equipment	---	---	---	---	---	---	---
Assault	1	---	1	1	---	---	3
Other occurrences	2	---	8	3	1	---	14
Total							
Grand total	2	---	14	8	5	30	59

NOTE: I = Executives, officials, and staff assistants
II = Professional, clerical, and general
III = Maintenance of way and structures
IV = Maintenance of equipment and stores
V = Transportation (other than train, engine, and yard)
VI = Transportation (train and engine)

TABLE 54. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

Type accident/incident	I*	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	---	1	13	3	3	90	110
Derailments	---	---	8	---	30	116	154
Rail-highway x-ing	---	1	5	---	19	61	86
Miscellaneous	---	---	8	---	1	29	38
Total	---	2	34	3	53	296	388
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	---	2	---	3	312	317
Coupling/uncoupling air/steam hose, safety chains	---	---	---	1	1	47	49
Operating or on locomotives	2	---	1	16	1	792	812
Operating rail motorcars	1	2	12	2	1	18	36
Operating hand brakes	---	---	---	---	---	117	117
Operating switches or derails	---	---	---	2	---	38	40
Contacting fixed objects while on locos or cars	---	---	---	---	1	101	102
Getting on or off cars or locomotives	1	8	11	12	7	1,040	1,079
Collisions, derailments, etc. (<= $4,501)	1	---	20	6	---	100	127
Rail-highway crossing accidents/incidents	---	2	5	1	2	73	83
Struck by/ran into loco/car(not at rr-hwy x-ing)	2	2	5	7	2	36	54
Servicing or maintenance of equipment	---	---	11	94	13	1	119
Maintenance of way and structures	1	1	165	11	1	4	183
Freight, baggage, express or mail	---	1	---	---	14	12	27
Windows, doors, etc., on on-track equipment	---	1	5	2	8	91	107
Passenger car doors	---	---	---	---	1	3	4
Stumbling, slipping, falling, caught, N.O.C	1	3	2	4	14	184	208
Flying or falling objects, burns, etc., N.O.C	1	2	6	2	8	435	454
Operation of on-track work equipment	1	---	109	6	---	15	131
Assault	---	1	1	---	---	116	118
Other occurrences	1	6	10	13	47	675	752
Total	12	29	365	179	124	4,210	4,919
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	---	1	2	22	2	713	740
Coupling/uncoupling air/steam hose, safety chains	---	---	4	51	2	258	315
Operating or on locomotives	1	1	3	61	3	450	519
Operating rail motorcars	---	2	48	4	---	20	74
Operating hand brakes	1	1	4	26	1	463	496
Operating switches or derails	1	2	34	35	11	1,239	1,322
Contacting fixed objects while on locos or cars	---	1	---	9	1	13	24
Getting on or off cars or locomotives	2	37	32	169	24	963	1,227
Collisions, derailments, etc. (<= $4,501)	---	---	---	---	---	---	---
Rail-highway crossing accidents/incidents	1	---	3	---	---	---	4
Struck by/ran into loco/car(not at rr-hwy x-ing)	---	1	---	5	---	5	11
Servicing or maintenance of equipment	7	115	498	5,727	96	101	6,544
Maintenance of way and structures	30	216	9,529	574	35	40	10,424
Freight, baggage, express or mail	---	24	---	8	78	18	128
Windows, doors, etc., on on-track equipment	3	32	55	162	32	194	478
Passenger car doors	---	1	2	5	---	13	21
Stumbling, slipping, falling, caught, N.O.C	16	296	258	274	186	1,010	2,040
Flying or falling objects, burns, etc., N.O.C	7	73	43	61	43	364	591
Operation of on-track work equipment	1	1	121	16	1	1	141
Assault	3	92	20	12	13	56	196
Other occurrences	20	630	591	290	196	483	2,210
Total	93	1,526	11,247	7,511	724	6,404	27,505
Grand total	105	1,557	11,646	7,693	901	10,910	32,812

NOTE: I = Executives, officials, and staff assistants
II = Professional, clerical, and general
III = Maintenance of way and structures
IV = Maintenance of equipment and stores
V = Transportation (other than train, engine, and yard)
VI = Transportation (train and engine)

TABLE 55. LOST WORKDAYS RESULTING FROM NONFATAL INJURIES TO EMPLOYEES ON DUTY

Type of Occurrence	Total Cases	Cases With Days Away From Work Or Days Of Restriction: Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
TRAIN ACCIDENTS							
Collisions	110	97	84	13	2,778	152	13
Derailments	154	146	108	38	2,725	529	8
Rail-highway x-ing	86	72	63	9	2,084	339	14
Miscellaneous	38	29	28	1	1,502	125	9
Total	388	344	283	61	9,089	1,145	44
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	317	269	124	145	3,470	2,024	48
Coupling/uncoupling air/steam hose, safety chains	49	41	18	23	509	212	8
Operating or on locomotives	812	542	318	224	5,187	2,591	270
Operating rail motorcars	36	25	19	6	638	97	11
Operating hand brakes	117	97	54	43	1,298	704	20
Operating switches or derails	40	31	16	15	398	137	9
Contacting fixed objects while on locos or cars	102	82	48	34	1,188	747	20
Getting on or off cars or locomotives	1,079	909	527	382	10,216	5,300	170
Collisions, derailments, etc. (<= $4,501)	127	96	64	32	1,787	775	31
Rail-highway crossing accidents/incidents	83	62	38	24	847	319	21
Struck by/ran into loco/car(not at rr-hwy x-ing)	54	39	24	15	1,083	211	15
Servicing or maintenance of equipment	119	84	47	37	1,347	388	35
Maintenance of way and structures	183	138	89	49	2,411	654	45
Freight, baggage, express or mail	27	22	14	8	160	46	5
Windows, doors, etc., on on-track equipment	107	79	57	22	829	260	28
Passenger car doors	4	3	3	—	75	—	1
Stumbling, slipping, falling, caught, N.O.C	208	179	97	82	2,545	1,479	29
Flying or falling objects, burns, etc., N.O.C	454	181	86	95	624	464	273
Operation of on-track work equipment	131	98	55	43	1,334	534	33
Assault	118	89	64	25	726	240	29
Other occurrences	752	560	343	217	7,778	3,540	192
Total	4,919	3,626	2,105	1,521	44,450	20,722	1,293
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	740	599	324	275	6,668	4,093	141
Coupling/uncoupling air/steam hose, safety chains	315	219	115	104	1,989	1,402	96
Operating or on locomotives	519	375	246	129	3,426	1,604	144
Operating rail motorcars	74	57	41	16	768	209	17
Operating hand brakes	496	384	206	178	3,885	2,638	112
Operating switches or derails	1,322	1,084	636	448	12,732	8,068	238
Contacting fixed objects while on locos or cars	24	15	9	6	119	62	9
Getting on or off cars or locomotives	1,227	1,009	637	372	12,109	5,901	218
Collisions, derailments, etc. (<= $4,501)	—	—	—	—	—	—	—
Rail-highway crossing accidents/incidents	4	3	1	2	23	32	1
Struck by/ran into loco/car(not at rr-hwy x-ing)	11	8	7	1	150	10	3
Servicing or maintenance of equipment	6,544	3,995	2,215	1,780	35,061	21,221	2,549
Maintenance of way and structures	10,424	6,510	3,082	3,428	54,706	37,922	3,914
Freight, baggage, express or mail	128	109	80	29	1,422	305	19
Windows, doors, etc., on on-track equipment	478	324	210	114	3,127	1,552	154
Passenger car doors	21	9	7	2	62	60	12
Stumbling, slipping, falling, caught, N.O.C	2,040	1,636	1,037	599	19,605	9,146	404
Flying or falling objects, burns, etc., N.O.C	591	308	174	134	1,644	946	283
Operation of on-track work equipment	141	111	58	53	1,239	860	30
Assault	196	158	140	18	1,597	208	38
Other occurrences	2,210	1,280	882	398	14,059	5,215	930
Total	27,505	18,193	10,107	8,086	174,391	101,454	9,312
Grand total	32,812	22,163	12,495	9,668	227,930	123,321	10,649

TABLE 56. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	I[a]	II	III	IV	V	VI	Total
TRAIN ACCIDENTS							
Collisions	—	—	—	—	—	2	2
Derailments	—	—	—	—	—	6	6
Rail-highway x-ing	—	—	—	—	—	—	—
Miscellaneous	—	—	—	—	—	1	1
Total	—	—	—	—	—	9	9
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	—	—	—	—	—	—	—
Coupling/uncoupling air/steam hose, safety chains	—	—	—	—	—	—	—
Operating or on locomotives	—	—	—	1	—	29	30
Operating rail motorcars	—	—	—	—	—	—	—
Operating hand brakes	—	—	—	—	—	—	—
Operating switches or derails	—	—	—	—	—	—	—
Contacting fixed objects while on locos or cars	—	—	—	—	—	—	—
Getting on or off cars or locomotives	—	—	—	—	—	—	—
Collisions, derailments, etc. (<= $4,501)	—	—	—	—	1	5	6
Rail-highway crossing accidents/incidents	—	—	—	—	—	—	—
Struck by/ran into loco/car(not at rr-hwy x-ing)	—	—	—	—	—	—	—
Servicing or maintenance of equipment	—	—	—	—	—	—	—
Maintenance of way and structures	—	—	1	—	—	—	1
Freight, baggage, express or mail	—	—	—	—	—	—	—
Windows, doors, etc., on on-track equipment	—	—	—	—	—	—	—
Passenger car doors	—	—	—	—	—	—	—
Stumbling, slipping, falling, caught, N.O.C.	—	—	—	—	—	41	41
Flying or falling objects, burns, etc., N.O.C.	—	—	—	—	—	—	—
Operation of on-track work equipment	—	—	—	—	—	—	—
Assault	—	—	—	—	—	5	5
Other occurrences	—	—	1	1	1	80	83
Total							
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	—	—	—	—	—	—	—
Coupling/uncoupling air/steam hose, safety chains	—	—	—	—	—	—	—
Operating or on locomotives	—	1	—	4	—	16	21
Operating rail motorcars	—	—	—	—	—	1	1
Operating hand brakes	—	—	—	—	—	—	—
Operating switches or derails	—	—	—	1	—	2	3
Contacting fixed objects while on locos or cars	—	—	—	—	—	—	—
Getting on or off cars or locomotives	—	—	—	1	—	2	3
Collisions, derailments, etc. (<= $4,501)	—	—	—	—	—	—	—
Rail-highway crossing accidents/incidents	—	—	—	—	—	—	—
Struck by/ran into loco/car(not at rr-hwy x-ing)	—	—	—	—	—	—	—
Servicing or maintenance of equipment	—	3	2	74	1	3	83
Maintenance of way and structures	—	3	132	5	—	1	141
Freight, baggage, express or mail	—	—	—	—	—	—	—
Windows, doors, etc., on on-track equipment	—	—	—	—	—	—	—
Passenger car doors	—	—	—	—	—	—	—
Stumbling, slipping, falling, caught, N.O.C.	—	2	—	3	—	1	6
Flying or falling objects, burns, etc., N.O.C.	2	7	7	8	1	37	62
Operation of on-track work equipment	—	—	—	—	—	1	1
Assault	—	—	—	—	—	—	—
Other occurrences	—	9	102	9	6	13	139
Total	2	25	243	105	8	77	460
Grand total	2	25	244	106	9	166	552

NOTE: I = Executives, officials, and staff assistants
II = Professional, clerical, and general
III = Maintenance of way and structures
IV = Maintenance of equipment and stores
V = Transportation (other than train, engine, and yard)
VI = Transportation (train and engine)

TABLE 57. SUMMARY OF NONFATAL EMPLOYEE ON DUTY INJURIES DUE TO ASSAULT

Railroad	.....Struck By Thrown Or Otherwise..... Propelled Object While: On Locomotive	On Caboose	On Cars	Not On Consist	...Other Assaults... On Consists	Not On Consists	Grand Total
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	---	---	---	---	1	---	1
Amtrak (National RR Passenger Corp).	---	---	---	1	---	48	49
Atchison, Topeka And Santa Fe Rwy Co.	---	---	---	---	1	2	3
Baltimore And Ohio Railroad Co.	3	2	---	---	1	5	11
Bessemer And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Boston And Maine Corporation.	---	---	---	---	---	---	---
Burlington Northern Incorporated.	---	2	1	---	3	1	7
Central Of Georgia Railroad Company.	---	---	---	---	1	---	1
Chesapeake And Ohio Railway Company.	1	2	---	---	1	6	10
Chicago And North Western.	1	3	1	1	---	6	12
Chicago, Milw, St. Paul And Pacific.	---	1	---	---	1	---	2
Cincinnati, New Orleans And TX Pac Co.	---	---	---	---	---	---	---
Consolidated Rail Corporation.	12	7	---	2	---	18	39
Delaware And Hudson Railway.	1	3	---	---	---	---	4
Denver And Rio Grande Western RR Co.	---	---	---	---	---	1	1
Duluth, Missabe And Iron Range Rwy Co.	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Grand Trunk Western Railroad Co.	---	1	---	---	---	2	3
Illinois Central Gulf Railroad Co.	3	1	---	---	1	2	7
Kansas City Southern Railway Co.	---	1	---	---	---	1	2
Louisiana And Arkansas Rwy Company.	1	---	---	---	---	1	2
Missouri Pacific Railroad Co.	2	2	---	1	1	3	9
Missouri-Kansas-Texas Railroad Co.	---	---	---	---	---	---	---
Norfolk And Western Railway Co.	---	---	---	---	---	2	2
Pittsburg And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Seaboard System Railroad.	1	6	1	---	2	---	10
Soo Line Railroad Company.	---	---	---	---	---	---	---
Southern Pacific Transportation Co.	5	5	---	1	5	10	26
Southern Railway Company.	---	---	---	---	2	---	2
St. Louis Southwestern Railway Co.	---	2	---	---	---	---	2
Union Pacific Railroad Co.	1	1	---	---	1	2	5
Total Class I Railroads.	31	39	3	6	21	110	210
RECAPITULATION (INCLUDES CLASS II AND III RAILROADS)							
Class I Railroads.	31	39	3	6	21	110	210
Class II Railroads.	---	1	---	---	1	---	2
Class III Railroads.	16	---	5	2	12	67	102
Total All Railroads.	47	40	8	8	34	177	314

TABLE 58. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	MISC CAUSES NOT OTHERWISE LISTED								
700	Collision with hwy user at grade xing....	35	3	---	3	---	---	25	7
701	Emergency brk appl to avoid accident.....	1	---	---	---	---	---	---	1
709	Object on or fouling track.....	1	1	---	1	---	---	---	---
710	Equipment on or fouling track.....	1	---	1	1	---	---	---	---
799	Other miscellaneous causes.....	2	---	---	---	---	1	---	1
	SUBTOTAL.....	40	4	1	5	---	1	25	9
	GRAND TOTAL.....	40	4	1	5	---	1	25	9

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 59. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	MISC CAUSES NOT OTHERWISE LISTED								
700	Collision with hwy user at grade xing....	193	61	25	86	---	27	72	8
701	Emergency brk appl to avoid accident.....	2	2	---	2	---	---	---	---
702	Vandalism.....	8	6	---	6	---	2	---	---
703	Interference with RR oper.-not vandals...	1	1	---	1	---	---	---	---
704	Load shifted.....	1	1	---	1	---	---	---	---
705	Load fell from car.....	2	2	---	2	---	---	---	---
709	Object on or fouling track.....	21	17	1	18	---	---	1	2
710	Equipment on or fouling track.....	3	1	2	3	---	---	---	---
713	Interaction of lateral/vertical forces...	4	3	1	4	---	---	---	---
719	Objects such as lading chains or strap...	1	1	---	1	---	---	---	---
799	Other miscellaneous causes.....	29	9	5	14	1	11	1	2
	SUBTOTAL.....	265	104	34	138	1	40	74	12
	GRAND TOTAL.....	265	104	34	138	1	40	74	12

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

READEX MICRO

TABLE 60. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	EMPLOYEE PHYSICAL CONDITION								
510	Impairment due to alcohol or drugs.....	5	4	1	5	---	---	---	---
513	Employee falling asleep.....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	7	6	1	7	---	---	---	---
	OTHER RULES AND INSTRUCTIONS								
533	Failure to stop train in clear.....	1	1	---	1	---	---	---	---
536	Mtr car/on-trk eqp rules,fail to comply...	1	---	1	1	---	---	---	---
541	Special op. instr., failure to comply....	1	1	---	1	---	---	---	---
544	Trn ord(written)err in preparation,etc...	3	3	---	3	---	---	---	---
	SUBTOTAL.....	6	5	1	6	---	---	---	---
	SPEED								
555	Trn out yrd limit,clear blk,excess spd...	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	SWITCHES, USE OF								
561	Switch improperly lined.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	MISCELLANEOUS								
599	Other train operation/human factors.....	1	---	---	---	---	---	---	1
	SUBTOTAL.....	1	---	---	---	---	---	---	1
	GRAND TOTAL.....	16	13	2	15	---	---	---	1

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 61. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	BRAKES, USE OF								
500	Automatic brake, improper use	18	6	---	6	---	12	---	---
502	Failure to secure engine (R.R. emp.)	1	1	---	1	---	---	---	---
503	Failure to secure hnd brk (R.R. emp)	7	1	6	7	---	---	---	---
504	Failure to apply sufficient hand brake	3	2	1	3	---	---	---	---
505	Failure to apply hnd brk on car (emp.)	3	3	---	3	---	---	---	---
506	Fail. to secure eng/car (Non R.R. emp)	3	3	---	3	---	---	---	---
509	Other causes involving use of brakes	2	2	---	2	---	---	---	---
	SUBTOTAL	37	18	7	25	---	12	---	---
	EMPLOYEE PHYSICAL CONDITION								
513	Employee falling asleep	2	2	---	2	---	---	---	---
	SUBTOTAL	2	2	---	2	---	---	---	---
	FLAGGING, FIXED, HAND AND RADIO SIGNALS								
52A	Block signal, failure to comply	4	4	---	4	---	---	---	---
52B	Interlocking signal, failure to comply	4	4	---	4	---	---	---	---
520	Fixed signal, failure to comply	7	6	1	7	---	---	---	---
523	Hand signal, failure to comply	1	1	---	1	---	---	---	---
527	Radio communication, improper	1	1	---	1	---	---	---	---
529	Flagging, fixed, hand & radio (other)	6	6	---	6	---	---	---	---
	SUBTOTAL	23	22	1	23	---	---	---	---
	OTHER RULES AND INSTRUCTIONS								
531	Cars left foul	3	3	---	3	---	---	---	---
533	Failure to stop train in clear	9	8	1	9	---	---	---	---
535	Instruction to trn/yard crew improper	3	3	---	3	---	---	---	---
536	Mtr car/on-trk eqp rules,fail to cmply	11	1	10	11	---	---	---	---
537	Equip move without authority (RR emp)	1	1	---	1	---	---	---	---
538	Shoving move, missing man at lead	8	7	1	8	---	---	---	---
539	Shoving movement, fail to control	3	3	---	3	---	---	---	---
541	Special op. instr., failure to comply	2	2	---	2	---	---	---	---
542	Trn ord/timetable auth, fail to comply	5	3	2	5	---	---	---	---
544	Trn ord(written)err in preparation,etc	3	3	---	3	---	---	---	---
549	Rules and instructions, other	307	6	---	6	---	301	---	---
	SUBTOTAL	355	40	14	54	---	301	---	---
	SPEED								
554	Trn inside yrd limit, excess speed	4	4	---	4	---	---	---	---
555	Trn out yrd limit,clear blk,excess spd	3	3	---	3	---	---	---	---
559	Other Causes involving excessive speed	5	5	---	5	---	---	---	---
	SUBTOTAL	12	12	---	12	---	---	---	---
	SWITCHES, USE OF								
561	Switch improperly lined	13	9	3	12	---	---	1	---
563	Switch previouly run through	2	1	---	1	---	---	1	---
569	Use of switches, other	2	1	---	1	---	1	---	---
	SUBTOTAL	17	11	3	14	---	1	2	---
	MISCELLANEOUS								
570	Buffing or slack action excessive	7	7	---	7	---	---	---	---
572	Lateral drawbar force on curve excess	2	2	---	2	---	---	---	---
599	Other train operation/human factors	5	3	---	3	1	1	---	---
	SUBTOTAL	14	12	---	12	1	1	---	---
	GRAND TOTAL	460	117	25	142	1	315	2	---

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 62. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MECHANICAL/ELECTRICAL FAILURES

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	AXLES AND JOURNAL BEARINGS								
432	Journal (R. B.) failure - overheat.....	2	---	---	---	---	---	---	2
	SUBTOTAL.....	2	---	---	---	---	---	---	2
	GRAND TOTAL.....	2	---	---	---	---	---	---	2

TABLE 63. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MECHANICAL/ELECTRICAL FAILURES

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	BRAKES								
400	Air hose uncoupled or burst.....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---	---
	BODY								
424	Center plate disengaged from truck.....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---	---
	COUPLER AND DRAFT SYSTEM								
431	Coupler mismatch, high/low.....	2	2	---	2	---	---	---	---
433	Coupler retainer pin/cross key missing...	2	2	---	2	---	---	---	---
436	Coupler shank broken or defective.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	5	5	---	5	---	---	---	---
	TRUCK COMPONENTS								
440	Side bearing clearance improper.....	6	6	---	6	---	---	---	---
445	Truck (stiff/improper lateral).....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	7	7	---	7	---	---	---	---
	AXLES AND JOURNAL BEARINGS								
452	Journal (R. B.) failure - overheat.....	2	1	---	1	---	---	---	1
453	Journal fractured, new cold break.....	2	2	---	2	---	---	---	---
459	Axles and journal bearings (other).....	3	---	3	3	---	---	---	---
459L	Axles/journal bearings (other) - loco....	25	3	12	15	---	10	---	---
	SUBTOTAL.....	32	6	15	21	---	10	---	1
	WHEELS								
460	Broken flange.....	4	3	---	3	---	---	1	---
464	Worn flange.....	1	1	---	1	---	---	---	---
469	Other causes involving wheels-not loco...	1	1	---	1	---	---	---	---
	SUBTOTAL.....	6	5	---	5	---	---	1	---
	LOCOMOTIVES								
474L	Electrically caused fire - locomotive....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---	---
	GRAND TOTAL.....	56	29	15	44	---	10	1	1

TABLE 64. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY DEFECTS IN TRACK, ROADBED, AND STRUCTURES

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	ROADBED DEFECTS								
102	Washout/rain/slide/ice,etc. dmg to trk...	5	1	1	2	---	3	---	---
	SUBTOTAL.....	5	1	1	2	---	3	---	---
	GRAND TOTAL.....	5	1	1	2	---	3	---	---

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 65. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY DEFECTS IN TRACK, ROADBED AND STRUCTURES

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	ROADBED DEFECTS								
101	Roadbed settled or soft	1	---	1	1	---	---	---	---
102	Washout/rain/slide/ice,etc. dmg to trk	58	11	14	25	---	33	---	---
109	Other roadbed defects	1	1	---	1	---	---	---	---
	SUBTOTAL	60	12	15	27	---	33	---	---
	TRACK GEOMETRY DEFECTS								
110	Wide gage (defect/missing crossties)	2	2	---	2	---	---	---	---
113	Wide gage due to worn rail	3	3	---	3	---	---	---	---
114	Track alignment irregular	1	1	---	1	---	---	---	---
115	Track alignment irregular (buckled)	10	10	---	10	---	---	---	---
119	Cross level irregular at joints	4	3	1	4	---	---	---	---
120	Cross level irregular not at joints	3	3	---	3	---	---	---	---
129	Other track geometry defects	3	1	1	2	---	1	---	---
	SUBTOTAL	26	23	2	25	---	1	---	---
	RAIL AND JOINT BAR DEFECTS								
130	Bolt hole crack or break	2	2	---	2	---	---	---	---
133	Broken weld, plant	1	---	---	---	---	---	---	1
136	Head/web sep.(outside joint bar limit)	3	3	---	3	---	---	---	---
138	Horizontal split head	1	1	---	1	---	---	---	---
142	Vertical split head	1	1	---	1	---	---	---	---
144	Mismatched rail-head contour	1	---	1	1	---	---	---	---
149	Other rail and joint bar defects	1	1	---	1	---	---	---	---
	SUBTOTAL	10	8	1	9	---	---	---	1
	FROGS, SWITCHES AND TRACK APPLIANCES								
161	Switch damaged/out of adjustment	1	1	---	1	---	---	---	---
162	Switch stand failure (hand oper.)	5	1	---	1	---	4	---	---
163	Switch connecting/oper. rod fail	1	1	---	1	---	---	---	---
164	Stock rail worn/broken/disconnect	1	1	---	1	---	---	---	---
165	Switch point worn or broken	1	1	---	1	---	---	---	---
174	Spring/power switch mech. malfunction	1	1	---	1	---	---	---	---
179	Other frog/switches/track appl. causes	4	4	---	4	---	---	---	---
	SUBTOTAL	14	10	---	10	---	4	---	---
	OTHER WAY AND STRUCTURES								
181	Flangeway clogged	2	2	---	2	---	---	---	---
	SUBTOTAL	2	2	---	2	---	---	---	---
	GRAND TOTAL	112	55	18	73	---	38	---	1

NOTE: Includes illnesses resulting from accident, if any.
Contractor employees are included with nontrespassers.

TABLE 66. FATALITIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
009T	Other acc/inc while coupling/uncoupling cars or locos - equip moving	1	---	---	---	---	---	1	---
	SUBTOTAL.....	1	---	---	---	---	---	1	---
	COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
059T	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	OPERATING OR ON LOCOMOTIVES								
119T	Other accidents/incidents while operating locomotives - eqp moving	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	OPERATING HAND BRAKES								
200T	Manipulating hand brakes, no defects, equipment moving	1	1	---	1	---	---	---	---
207T	Losing hold, slipping, or falling - equipment moving	1	---	---	---	---	---	1	---
	SUBTOTAL.....	2	1	---	1	---	---	1	---
	CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	3	3	---	3	---	---	---	---
409T	Persons on loco/car coming in contact with fixed obj(other)-eqp mov	1	---	---	---	---	---	---	1
	SUBTOTAL.....	4	3	---	3	---	---	---	1
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
501T	Slip/fall due to lost/missed hold of grabiron,handhold,etc.-eqp mov	2	---	1	1	---	1	---	---
502T	Slip/fall due to losing/missing footing on step,stirrup,etc.-eqp mov	2	---	---	---	---	---	---	2
507T	Falling, slipping, tripping, not elsewhere classified - eqp moving	3	---	---	---	---	---	---	3
511T	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	3	1	---	1	---	---	1	1
513T	Jumping from equipment - equipment moving	4	---	---	---	---	3	---	1
519T	Other acc/inc while getting on or off cars or locos - equipment mov	1	---	---	---	---	---	---	1
	SUBTOTAL.....	15	1	1	2	---	4	1	8

TABLE 66. (CONTINUED)

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	COLLISIONS, DERAILMENTS, ETC.(<= $4,501)								
602T	Casualty resulting fm a derailment which did not satisfy $ threshold	1	—	—	—	—	—	1	—
603T	Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	1	—	—	—	—	—	—	1
	SUBTOTAL.....	2	—	—	—	—	—	1	1
	RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	567	—	—	—	2	—	489	76
610T	Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	36	—	—	—	—	—	33	3
	SUBTOTAL.....	603	—	—	—	2	—	522	79
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701T	Standing, walking or running on or along track - equipment moving	136	2	1	3	—	—	2	131
702T	Crossing track at private rail-highway crossing - equipment moving	7	—	—	—	—	—	1	6
703T	Crossing track not at a crossing - equipment moving	35	—	—	—	—	—	—	35
704T	While on public thoroughfare - equipment moving	1	—	—	—	—	—	1	—
705T	On bridges or trestles - equipment moving	21	—	—	—	—	—	1	20
706T	Sitting or lying on track or near track, not in clear - eqp moving	203	—	—	—	1	—	1	201
707T	While working on or along track - equipment moving	2	1	1	2	—	—	—	—
708T	Passing over, through, or under cars - equipment moving	19	—	—	—	—	—	2	17
709T	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	33	1	—	1	1	—	2	29
	SUBTOTAL.....	457	4	2	6	2	—	10	439
	SERVICING OR MAINTENANCE OF EQUIPMENT								
802T	Crossing over, under, or between locos or cars - equipment moving	2	—	2	2	—	—	—	—
803T	Striking or being struck by eqp, structures, or material-eqp mov	2	—	2	2	—	—	—	—
	SUBTOTAL.....	4	—	4	4	—	—	—	—
	MAINTENANCE OF WAY AND STRUCTURES								
852T	Crossing over, under, or between locos or cars-eqp moving	1	—	1	1	—	—	—	—
	SUBTOTAL.....	1	—	1	1	—	—	—	—
	FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901T	Handling freight, baggage, express or mail-eqp moving	1	—	1	1	—	—	—	—
904T	Other acc/inc involving freight, baggage, express, or mail - eqp mov	1	—	1	1	—	—	—	—
	SUBTOTAL.....	2	—	2	2	—	—	—	—

TABLE 66. (CONTINUED)

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
	WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
919T	Other accidents/incidents involving windows or doors-eqp mov	1	---	---	---	---	---	---	1
	SUBTOTAL.....	1	---	---	---	---	---	---	1
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
934T	Slip/fall, etc. between loco/car and other cars and struct-eqp mov	3	---	---	---	---	1	1	1
937T	Into depressions - equipment moving	1	---	---	---	---	---	---	1
938T	While on locomotive or car-equipment moving	2	---	---	---	---	---	---	2
939T	Other, stumbling, slipping, falling, caught, etc. - equipment moving	2	---	---	---	---	1	---	1
	SUBTOTAL.....	8	---	---	---	---	2	1	5
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
947T	Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	2	---	---	---	---	---	---	2
	SUBTOTAL.....	2	---	---	---	---	---	---	2
	OPERATION OF ON-TRACK WORK EQUIPMENT								
934T	Getting on/off on-track work equipment - equipment moving	1	---	---	---	---	---	1	---
939T	Other A/I involving on-track work equipment - equipment moving	1	---	1	1	---	---	---	---
	SUBTOTAL.....	2	---	1	1	---	---	1	---
	ASSAULT								
96AT	Shot while on moving on-track equipment	2	1	---	1	---	---	1	---
	SUBTOTAL.....	2	1	---	1	---	---	1	---
	OTHER OCCURRENCES								
974T	Slack action in caboose	1	---	---	---	---	---	---	1
989T	Other accidents/incidents-equipment moving	9	---	---	---	---	1	---	8
	SUBTOTAL.....	10	---	---	---	---	1	---	9
	GRAND TOTAL.....	1,118	12	11	23	4	7	539	545

NOTE: Contractor employees are included with nontrespassers

TABLE 67. INJURIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
001T	Adjusting coupler, equipment moving unexpectedly	16	16	---	16	---	---	---	---
002T	Adjusting coupler - equipment moving	23	23	---	23	---	---	---	---
003T	Crossing over, under or between on-track equipment, equipment moving	1	1	---	1	---	---	---	---
004T	Adjusting coupler, part of coupler fell striking person - eqp moving	4	4	---	4	---	---	---	---
005T	Use of uncoupling lever - equipment moving	84	84	---	84	---	---	---	---
006T	Use of uncoupling lever - equipment moving unexpectedly	6	6	---	6	---	---	---	---
007T	Striking parts of body against equipment - equipment moving	41	40	1	41	---	---	---	---
008T	Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	74	73	1	74	---	---	---	---
009T	Other acc/inc while coupling/uncoupling cars or locos - equip moving	68	65	3	68	---	---	---	---
	SUBTOTAL.....	317	312	5	317	---	---	---	---
	COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
052T	Uncoupl air hose,struck by hose due to sudden release of air-eqp mov	13	13	---	13	---	---	---	---
053T	Coupling air hose,stk by hose due to sudden release of air - eqp mov	3	2	1	3	---	---	---	---
054T	Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp moving	12	11	1	12	---	---	---	---
057T	Opening or closing angle cocks - equipment moving	8	8	---	8	---	---	---	---
059T	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	13	13	---	13	---	---	---	---
	SUBTOTAL.....	49	47	2	49	---	---	---	---
	OPERATING OR ON LOCOMOTIVES								
101T	Burn or electrical shock - equipment moving	4	3	1	4	---	---	---	---
102T	Striking parts of body against equipment, moving about loco-eqp mov	50	49	1	50	---	---	---	---
103T	Struck by tools or other objects falling - equipment moving	17	15	2	17	---	---	---	---
104T	Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	58	58	---	58	---	---	---	---
105T	Checking, oiling, servicing locomotive, etc. - equipment moving	5	4	1	5	---	---	---	---
106T	Unexpected movement of locomotive, other than slack action	88	81	7	88	---	---	---	---
107T	Slack action in locomotive	49	48	1	49	---	---	---	---
108T	Striking parts of body against equipment due to sudden stop of loco	75	71	4	75	---	---	---	---
109T	Inhalation of or contact with fumes or gases - equipment moving	6	6	---	6	---	---	---	---
110T	Defective locomotive seat - equipment moving	22	22	---	22	---	---	---	---
111T	Adjusting locomotive seat - equipment moving	10	10	---	10	---	---	---	---
112T	Foreign object in eye - equipment moving	318	317	1	318	---	---	---	---
119T	Other accidents/incidents while operating locomotives - eqp moving	110	108	2	110	---	---	---	---
	SUBTOTAL.....	812	791	20	812	---	---	---	---

TABLE 67. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	OPERATING RAIL MOTORCARS								
151T	Striking parts of body against equipment - equipment moving	7	4	3	7	---	---	---	---
152T	Struck by tools or other objects falling - equipment moving	1	---	1	1	---	---	---	---
153T	Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov	8	8	---	8	---	---	---	---
154T	Unexpected movement of rail motorcar	2	1	1	2	---	---	---	---
159T	Other accidents/incidents while operating rail motorcars - eqp mov	19	5	13	18	---	---	1	---
	SUBTOTAL.....	37	18	18	36	---	---	1	---
	OPERATING HAND BRAKES								
200T	Manipulating hand brakes, no defects, equipment moving	42	42	---	42	---	---	---	---
201T	Defective equipment - equipment moving	7	7	---	7	---	---	---	---
203T	Striking body due to movement of equipment	12	12	---	12	---	---	---	---
204T	Losing hold, slipping or falling due to coupling impact	11	11	---	11	---	---	---	---
205T	Caught between parts of equipment or lading - equipment moving	2	2	---	2	---	---	---	---
206T	Brake chains or bolts, breaking or giving way - equipment moving	3	3	---	3	---	---	---	---
207T	Losing hold, slipping, or falling - equipment moving	14	14	---	14	---	---	---	---
208T	Caught hand or fingers in spinning brake wheel - equipment moving	3	3	---	3	---	---	---	---
209T	Other accidents/incidents while operating hand brakes - eqp moving	24	23	---	23	---	---	1	---
	SUBTOTAL.....	118	117	---	117	---	---	1	---
	OPERATING SWITCHES OR DERAILS								
304T	Struck by moving on-track equipment	4	2	2	4	---	---	---	---
309T	Other acc/inc while operating switches/derails - equipment moving	36	36	---	36	---	---	---	---
	SUBTOTAL.....	40	38	2	40	---	---	---	---
	CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
401T	Persons on top locos/cars contacting fixed objects - equipment mov	7	6	---	6	---	---	---	1
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	69	67	---	67	---	2	---	---
409T	Persons on loco/car coming in contact with fixed obj(other)-eqp mov	30	28	1	29	1	---	---	---
	SUBTOTAL.....	106	101	1	102	1	2	---	1

TABLE 67. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
501T	Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp mov	83	67	2	69	1	1	---	12
502T	Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp mov	154	135	7	142	---	---	---	12
503T	Stepping or tripping on parts of track in place - equipment moving	49	47	1	48	---	---	---	1
504T	Stepping or tripping on foreign material or irreg surface - eqp mov	290	286	4	290	---	---	---	---
505T	Slipping on ice or snow on ground - equipment moving	34	34	---	34	---	---	---	---
506T	Slipping on ice/snow on cars or locomotives - equipment moving	15	14	1	15	---	---	---	---
507T	Falling, slipping, tripping, not elsewhere classified - eqp moving	117	78	4	82	1	1	1	32
508T	Slipping/falling while boarding/alighting fm passenger eqp (moving)	16	5	---	5	---	7	---	4
510T	Striking body or falling due to sudden movement of equipment	47	35	7	42	---	4	---	1
511T	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	51	45	1	46	---	1	---	4
513T	Jumping from equipment - equipment moving	73	43	8	51	---	4	4	14
514T	Defective equipment - equipment moving	25	25	---	25	---	---	---	---
519T	Other acc/inc while getting on or off cars or locos - equipment mov	242	226	4	230	2	2	---	8
	SUBTOTAL.....	1,196	1,040	39	1,079	4	20	5	88
	COLLISIONS, DERAILMENTS, ETC.(<= $4,501)								
601T	Casualty resulting fm a collision which did not satisfy $ threshold	55	40	11	51	1	---	2	1
602T	Casualty resulting fm a derailment which did not satisfy $ threshold	73	59	14	73	---	---	---	---
603T	Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	11	1	2	3	---	---	2	6
	SUBTOTAL.....	139	100	27	127	1	---	4	7
	RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,457	58	8	66	1	8	2,179	203
610T	Casualty at private rail-hwy X-ing (Not rptd on form 6180-54)-eqp mov	176	15	2	17	1	---	151	7
	SUBTOTAL.....	2,633	73	10	83	2	8	2,330	210
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701T	Standing, walking or running on or along track - equipment moving	123	10	1	11	---	---	7	105
702T	Crossing track at private rail-highway crossing - equipment moving	10	---	6	6	1	---	1	2
703T	Crossing track not at a crossing - equipment moving	44	1	2	3	---	---	4	37

TABLE 67. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
704T	While on public thoroughfare - equipment moving	5	---	---	---	---	---	4	1
705T	On bridges or trestles - equipment moving	22	---	---	---	---	---	---	22
706T	Sitting or lying on track or near track, not in clear - eqp moving	96	---	---	---	1	---	2	93
707T	While working on or along track - equipment moving	29	19	6	25	---	---	3	1
708T	Passing over, through, or under cars - equipment moving	39	---	---	---	---	---	---	39
709T	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp mov	53	6	3	9	---	---	4	40
	SUBTOTAL.....	421	36	18	54	2	---	25	340
	SERVICING OR MAINTENANCE OF EQUIPMENT								
803T	Striking or being struck by eqp, structures, or material-eqp mov	57	1	56	57	---	---	---	---
815T	Moving equipment for repairs	40	---	40	40	---	---	---	---
825T	Other acc/inc while servicing or maintaining eqp-eqp moving	23	---	22	22	---	---	1	---
	SUBTOTAL.....	120	1	118	119	---	---	1	---
	MAINTENANCE OF WAY AND STRUCTURES								
852T	Crossing over, under, or between locos or cars-eqp moving	2	---	2	2	---	---	---	---
853T	Striking or being struck by eqp, structures, or material-eqp mov	145	3	142	145	---	---	---	---
899T	Other accs/incs while maintaining way and structures - eqp moving	36	1	35	36	---	---	---	---
	SUBTOTAL.....	183	4	179	183	---	---	---	---
	FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901T	Handling freight, baggage, express or mail-eqp moving	11	3	8	11	---	---	---	---
902T	Struck or caught by shifted lading-eqp moving	7	5	1	6	---	---	---	1
903T	Tripping over, or struck by falling baggage in passenger car-eqp mov	9	3	1	4	---	5	---	---
904T	Other acc/inc involving freight, baggage, express, or mail - eqp mov	6	1	5	6	---	---	---	---
	SUBTOTAL.....	33	12	15	27	---	5	---	1
	WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907T	Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	3	---	3	3	---	---	---	---
908T	Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp mov	2	1	1	2	---	---	---	---
909T	Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov	2	---	2	2	---	---	---	---
911T	Closing or opening plug type car doors, no defects-equipment mov	1	---	---	---	---	---	1	---

TABLE 67. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
912T	Closing or opening coach trap doors-equipment moving	10	9	1	10	---	---	---	---
913T	Interior doors-equipment moving	29	12	5	17	---	12	---	---
914T	Opening or closing locomotive doors-equipment moving	24	24	---	24	---	---	---	---
915T	Opening or closing locomotive windows-equipment moving	9	9	---	9	---	---	---	---
916T	Opening or closing caboose doors-equipment moving	12	12	---	12	---	---	---	---
917T	Opening or closing caboose windows-equipment moving	5	5	---	5	---	---	---	---
918T	Opening and closing other windows-equipment moving	2	1	1	2	---	---	---	---
919T	Other accidents/incidents involving windows or doors-eqp mov	29	18	3	21	---	8	---	---
	SUBTOTAL.....	128	91	16	107	---	20	1	---
	PASSENGER CAR DOORS								
920T	Caught by side doors while entering coach-equipment moving	2	---	---	---	---	2	---	---
921T	Caught by side doors while exiting coach-equipment moving	2	1	---	1	---	1	---	---
924T	Struck by side doors while entering coach-equipment moving	3	1	1	2	1	---	---	---
925T	Struck by side doors while exiting coach-equipment moving	3	1	---	1	---	2	---	---
926T	Striking side door while entering coach-equipment moving	1	---	---	---	---	1	---	---
927T	Striking side door while exiting coach-equipment moving	1	---	---	---	---	1	---	---
	SUBTOTAL.....	12	3	1	4	1	7	---	---
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930T	Stumbling/slipping, etc. on snow or ice - equipment moving	16	14	2	16	---	---	---	---
931T	Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	72	60	5	65	---	5	2	---
932T	Stumbling/slipping, etc. on parts of track in place-equipment moving	15	11	2	13	1	1	---	---
934T	Slip/fall, etc. between loco/car and other cars and struct-eqp mov	19	10	1	11	---	4	---	4
937T	Into depressions - equipment moving	9	9	---	9	---	---	---	---
938T	While on locomotive or car-equipment moving	104	64	7	71	---	25	1	7
939T	Other, stumbling, slipping, falling, caught, etc. - equipment moving	37	16	7	23	---	11	3	---
	SUBTOTAL.....	272	184	24	208	1	46	6	11
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T	Foreign object in eye-equipment moving	362	343	15	358	---	2	2	---
941T	Struck by flying of falling object (except assaults)-eqp mov	48	35	2	37	---	10	---	1
942T	Electrical flash, shock, or burn-equipment moving	3	2	---	2	---	---	1	---

TABLE 67. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
943T	Fire or explosion of fusees or torpedoes-equipment moving	1	1	---	1	---	---	---	---
945T	Burned by hot or corrosive substances-equipment moving	21	20	---	20	---	1	---	---
946T	Inhalation of or contact with fumes or gases-equipment moving	24	22	---	22	---	---	2	---
949T	Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	17	12	2	14	---	1	2	---
	SUBTOTAL.....	476	435	19	454	---	14	7	1
	OPERATION OF ON-TRACK WORK EQUIPMENT								
950T	Collision with train or car	11	5	6	11	---	---	---	---
951T	Collision with other on-track work equipment	22	---	22	22	---	---	---	---
952T	Jumping from equipment in anticipation of a collision	20	8	12	20	---	---	---	---
953T	Derailment that does not satisfy monetary threshold	28	2	26	28	---	---	---	---
954T	Getting on/off on-track work equipment - equipment moving	6	---	6	6	---	---	---	---
959T	Other A/I involving on-track work equipment - equipment moving	47	---	44	44	1	2	---	---
	SUBTOTAL.....	134	15	116	131	1	2	---	---
	ASSAULT								
96AT	Shot while on moving on-track equipment	10	9	1	10	---	---	---	---
96CT	Struck by other propelled object while on locomotive - equip moving	39	38	---	38	---	1	---	---
96DT	Struck by other propelled object while on car - equip moving	6	4	---	4	---	2	---	---
96ET	Struck by other propelled object while on caboose - equip moving	40	40	---	40	---	---	---	---
96GT	Other unprovoked assaults to persons on moving on-track equipment	14	12	---	12	1	1	---	---
96JT	Shot while on moving on-track equipment	4	4	---	4	---	---	---	---
96LT	Other assaults connected with the protection of RR property - eqp moving	5	4	1	5	---	---	---	---
96MT	All other assaults involving moving on-track equipment	5	5	---	5	---	---	---	---
	SUBTOTAL.....	123	116	2	118	1	4	---	---
	OTHER OCCURRENCES								
970T	Performing rerailing or other clearing operations-equipment moving	1	---	1	1	---	---	---	---
971T	Loco or car coming against car placed for loading or unloading	4	4	---	4	---	---	---	---
972T	Sudden movement of car, not otherwise classified	79	23	30	53	---	25	1	---
974T	Slack action in caboose	324	319	4	323	1	---	---	---
973T	Slack action, other	81	77	2	79	---	---	1	1
976T	Emergency or severe application of air brakes due to def eqp	13	11	1	12	---	1	---	---
977T	Emergency or severe application of air brakes not due to def eqp	45	40	3	43	---	---	1	1
986T	Unexpected move of caboose, not slack action (include emergency & severe brking)	57	52	5	57	---	---	---	---
988T	Other accidents/incidents while in caboose, equipment moving	93	91	2	93	---	---	---	---
989T	Other accidents/incidents-equipment moving	116	58	29	87	1	9	7	12
	SUBTOTAL.....	813	675	77	752	2	35	10	14
	GRAND TOTAL.....	8,162	4,210	709	4,919	16	163	2,391	673

NOTE: Contractor employees are included with nontrespassers

TABLE 68. ILLNESS IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
	OPERATING OR ON LOCOMOTIVES								
108T	Striking parts of body against equipment due to sudden stop of loco	1	1	—	1	—	—	—	—
109T	Inhalation of or contact with fumes or gases - equipment moving	25	25	—	25	—	—	—	—
112T	Foreign object in eye - equipment moving	1	—	1	1	—	—	—	—
119T	Other accidents/incidents while operating locomotives - eqp moving	3	3	—	3	—	—	—	—
	SUBTOTAL.....	30	29	1	30	—	—	—	—
	COLLISIONS, DERAILMENTS, ETC.(<= $4,501)								
602T	Casualty resulting fm a derailment which did not satisfy $ threshold	6	5	1	6	—	—	—	—
	SUBTOTAL.....	6	5	1	6	—	—	—	—
	MAINTENANCE OF WAY AND STRUCTURES								
899T	Other accs/incs while maintaining way and structures - eqp moving	1	—	1	1	—	—	—	—
	SUBTOTAL.....	1	—	1	1	—	—	—	—
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T	Foreign object in eye-equipment moving	1	1	—	1	—	—	—	—
943T	Fire or explosion of fusees or torpedoes-equipment moving	1	1	—	1	—	—	—	—
946T	Inhalation of or contact with fumes or gases-equipment moving	39	39	—	39	—	—	—	—
	SUBTOTAL.....	41	41	—	41	—	—	—	—
	OTHER OCCURRENCES								
988T	Other accidents/incidents while in caboose, equipment moving	3	3	—	3	—	—	—	—
989T	Other accidents/incidents-equipment moving	2	2	—	2	—	—	—	—
	SUBTOTAL.....	5	5	—	5	—	—	—	—
	GRAND TOTAL.....	83	80	3	83	—	—	—	—

NOTE: Contractor employees are included with nontrespassers

TABLE 69. FATALITIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	10	---	---	---	---	---	8	2
	SUBTOTAL.....	10	---	---	---	---	---	8	2
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701	Standing, walking or running on or along track - equipment standing	2	---	---	---	---	---	---	2
703	Crossing track not at a crossing - equipment standing	1	---	---	---	---	---	---	1
	SUBTOTAL.....	3	---	---	---	---	---	---	3
	SERVICING OR MAINTENANCE OF EQUIPMENT								
81A	Lifting parts to install while making repairs	1	---	1	1	---	---	---	---
	SUBTOTAL	1	---	1	1	---	---	---	---
	MAINTENANCE OF WAY AND STRUCTURES								
853	Striking or being struck by eqp, structures, or material-eqp std	1	---	1	1	---	---	---	---
863	Loading and unloading materials	1	---	1	1	---	---	---	---
869	Struck by flying of falling object	3	---	3	3	---	---	---	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	1	---	1	1	---	---	---	---
892	Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	2	---	2	2	---	---	---	---
899	Other accs/inc while maintaining way and structures - eqp standing	1	---	1	1	---	---	---	---
	SUBTOTAL.....	9	---	9	9	---	---	---	---
	FREIGHT, BAGGAGE, EXPRESS OR MAIL								
902	Struck or caught by shifted lading	2	---	---	---	---	---	---	2
	SUBTOTAL.....	2	---	---	---	---	---	---	2
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
933	Stumbling/slipping, etc. on stairways, ramps or platforms	2	---	---	---	---	---	2	---
935	From bridges or trestles	6	---	---	---	---	---	1	5
936	From structures other than bridges or trestles	3	---	---	---	---	---	3	---
939	Other, stumbling, slipping, falling, caught, etc.	1	---	---	---	---	---	---	1
	SUBTOTAL.....	12	---	---	---	---	---	6	6

TABLE 69. (CONTINUED)

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
942	Electrical flash, shock, or burn	3	---	---	---	---	---	1	2
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	7	---	---	---	---	---	1	6
	SUBTOTAL.....	10	---	---	---	---	---	2	8
	OPERATION OF ON-TRACK WORK EQUIPMENT								
959	Other A/I involving on-track work equipment - equipment standing	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	ASSAULT								
96B	Shooting incidents not involving persons on on-track equipment	1	---	---	---	1	---	---	---
96C	All other unprovoked assaults	1	---	---	---	---	---	---	1
	SUBTOTAL.....	2	---	---	---	1	---	---	1
	OTHER OCCURRENCES								
970	Performing rerailing or other clearing operations	1	---	1	1	---	---	---	---
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	7	---	2	2	---	---	2	3
989	Other accidents/incidents	8	---	---	---	---	1	1	6
	SUBTOTAL.....	16	---	3	3	---	1	3	9
	GRAND TOTAL.....	65	---	14	14	1	1	19	31

TABLE 70. INJURIES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
002	Adjusting coupler - equipment standing	338	328	9	337	1	---	---	---
003	Crossing over, under or between on-track equipment,equipment standing	6	5	1	6	---	---	---	---
004	Adjusting coupler, part of coupler fell striking person-eqp standing	45	45	---	45	---	---	---	---
005	Use of uncoupling lever - equipment standing	109	108	1	109	---	---	---	---
007	Striking parts of body against equipment - equipment standing	40	33	7	40	---	---	---	---
008	Stumbled,slipped,fell,stepped on foreign obj/irreg surface-eqp std	96	91	5	96	---	---	---	---
009	Other acc/inc while coupling/uncoupling cars or locos - equip std	107	103	4	107	---	---	---	---
	SUBTOTAL.....	741	713	27	740	1	---	---	---
	COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
051	Crossing over, under or between on-track equipment, equipment standing	4	3	1	4	---	---	---	---
052	Uncoupl air hose,struck by hose due to sudden release of air-eqp std	29	24	5	29	---	---	---	---
053	Coupling air hose,stk by hose due to sudden release of air - eqp std	38	30	8	38	---	---	---	---
054	Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp standing	43	31	12	43	---	---	---	---
055	Defective equipment - equipment standing	4	3	1	4	---	---	---	---
056	Burned by hot water or steam from hose - equipment standing	3	1	2	3	---	---	---	---
057	Opening or closing angle cocks - equipment standing	61	53	8	61	---	---	---	---
059	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	133	113	20	133	---	---	---	---
	SUBTOTAL.....	315	258	57	315	---	---	---	---
	OPERATING OR ON LOCOMOTIVES								
101	Burn or electrical shock - equipment standing	15	12	3	15	---	---	---	---
102	Striking parts of body against equipment, moving about loco-eqp std	75	67	8	75	---	---	---	---
103	Struck by tools or other objects falling - equipment standing	16	12	4	16	---	---	---	---
104	Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	120	97	23	120	---	---	---	---
105	Checking, oiling, servicing locomotive, etc. - equipment standing	45	27	18	45	---	---	---	---
109	Inhalation of or contact with fumes or gases - equipment standing	12	12	---	12	---	---	---	---
110	Defective locomotive seat - equipment standing	23	19	4	23	---	---	---	---
111	Adjusting locomotive seat - equipment standing	37	36	1	37	---	---	---	---
112	Foreign object in eye - equipment standing	91	88	3	91	---	---	---	---
119	Other accidents/incidents while operating locomotives - eqp standing	86	80	5	85	1	---	---	---
	SUBTOTAL.....	520	450	69	519	1	---	---	---
	OPERATING RAIL MOTORCARS								
151	Striking parts of body against equipment - equipment standing	8	4	4	8	---	---	---	---
152	Struck by tools or other objects falling - equipment standing	4	3	1	4	---	---	---	---
153	Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	17	10	6	16	1	---	---	---
155	Placing or removing rail motorcar on or off rail	40	1	39	40	---	---	---	---
159	Other accidents/incidents while operating rail motorcars - eqp std	6	2	4	6	---	---	---	---
	SUBTOTAL.....	75	20	54	74	1	---	---	---

TABLE 70. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	OPERATING HAND BRAKES								
200	Manipulating hand brakes, no defects, equipment standing	277	263	13	276	1	---	---	---
201	Defective equipment - equipment standing	27	26	1	27	---	---	---	---
202	Pawl slipping or accidentally knocked out of ratchet - eqp standing	9	9	---	9	---	---	---	---
203	Striking body not due to movement of equipment	23	22	1	23	---	---	---	---
205	Caught between parts of equipment or lading - equipment standing	6	5	1	6	---	---	---	---
206	Brake chains or bolts, breaking or giving way - equipment standing	6	4	2	6	---	---	---	---
207	Losing hold, slipping, or falling - equipment standing	45	40	5	45	---	---	---	---
208	Caught hand or fingers in spinning brake wheel - equipment standing	10	10	---	10	---	---	---	---
209	Other accidents/incidents while operating hand brakes - eqp standing	95	84	10	94	---	---	1	---
	SUBTOTAL.....	498	463	33	496	1	---	1	---
	OPERATING SWITCHES OR DERAILS								
301	Slipped, tripped or fell due to ice or snow	44	40	4	44	---	---	---	---
302	Slipped, tripped or fell not due to ice or snow	63	60	3	63	---	---	---	---
303	Parts of body struck or caught by mechanism of switch	79	69	10	79	---	---	---	---
305	Lining switches, defective equipment	200	190	10	200	---	---	---	---
306	Lining switches, no defects	731	690	40	730	1	---	---	---
307	Manipulating derail, no defects	34	32	2	34	---	---	---	---
308	Manipulating derail, defective equipment	6	6	---	6	---	---	---	---
309	Other acc/inc while operating switches/derails - equipment standing	166	152	14	166	---	---	---	---
	SUBTOTAL.....	1,323	1,239	83	1,322	1	---	---	---
	CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
401	Persons on top locos/cars contacting fixed objects - equipment std	3	1	2	3	---	---	---	---
402	Persons on side/end of locos/cars contacting fixed objects - eqp std	8	5	3	8	---	---	---	---
409	Persons on loco/car coming in contact with fixed obj(other)-eqp std	16	7	6	13	---	2	1	---
	SUBTOTAL.....	27	13	11	24	---	2	1	---
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
501	Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp std	92	58	20	78	1	7	5	1
502	Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp std	248	162	67	229	3	14	2	---
503	Stepping or tripping on parts of track in place - equipment standing	41	30	7	37	---	4	---	---

TABLE 70. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
504	Stepping or tripping on foreign material or irreg surface - eqp std	340	288	36	324	1	11	4	—
505	Slipping on ice or snow on ground - equipment standing	81	49	16	65	2	14	—	—
506	Slipping on ice/snow on cars or locomotives - equipment standing	42	36	2	38	—	4	—	—
507	Falling, slipping, tripping, not elsewhere classified - eqp std	121	77	37	114	—	6	—	1
508	Slipping/falling while boarding/alighting fm passenger eqp(standing)	127	21	13	34	—	84	9	—
511	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	57	38	10	48	1	7	1	—
512	Striking or being struck by bridges or trestles - equipment standing	1	1	—	1	—	—	—	—
513	Jumping from equipment - equipment standing	15	8	7	15	—	—	—	—
514	Defective equipment - equipment standing	23	20	2	22	—	1	—	—
519	Other acc/inc while getting on or off cars or locos - equipment std	230	175	47	222	1	5	—	2
	SUBTOTAL.....	1,418	963	264	1,227	9	157	21	4
	RAIL-HIGHWAY CROSSING ACCIDENTS/INCIDENTS								
609	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	84	—	4	4	—	—	71	9
	SUBTOTAL.....	84	—	4	4	—	—	71	9
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT RAIL-HWY X-INGS)								
701	Standing, walking or running on or along track - equipment standing	7	2	4	6	—	—	—	1
703	Crossing track not at a crossing - equipment standing	10	1	1	2	—	—	1	7
708	Passing over, through, or under cars - equipment standing	9	2	1	3	—	—	—	6
709	Struck by or ran into loco/car (not at hwy x-ing), misc-eqp std	7	—	—	—	—	—	2	5
	SUBTOTAL.....	33	5	6	11	—	—	3	19
	SERVICING OR MAINTENANCE OF EQUIPMENT								
802	Crossing over, under, or between locos or cars - equipment standing	58	2	56	58	—	—	—	—
803	Striking or being struck by eqp, structures, or material-eqp std	605	6	593	599	1	—	5	—
804	Use of hand tools	816	4	811	815	—	—	1	—
805	Use of portable power tools	129	—	129	129	—	—	—	—
806	Use of welding equipment	90	1	89	90	—	—	—	—
807	Use of oxygen-acytalene, natural gas cuting equipment	118	—	118	118	—	—	—	—
808	Use of grinding equipment	49	—	49	49	—	—	—	—
809	Use of scaffolds, ladders, etc.	77	1	76	77	—	—	—	—
81A	Lifting parts to install while making repairs	228	4	224	228	—	—	—	—

TABLE 70. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	SERVICING OR MAINTENANCE OF EQUIPMENT								
810	Use of cranes, hoists, derricks, piledrivers, etc.	111	---	110	110	---	---	1	---
811	Use of lift trucks and other portable material handling eqp	118	---	117	117	---	---	1	---
812	Use of shop machinery not elsewhere classified	95	---	95	95	---	---	---	---
813	Loading and unloading materials	222	1	221	222	---	---	---	---
814	Handling material by hand	832	9	816	825	---	---	7	---
816	Inhalation of or contact with fumes or gases	12	---	12	12	---	---	---	---
817	Foreign object in eye, using eye protection	277	3	272	275	---	---	2	---
818	Foreign object in eye, not using eye protection	206	14	190	204	2	---	---	---
819	Struck by flying or falling object	320	8	311	319	---	---	1	---
820	Electrical flash, shock, or burn	77	1	75	76	---	---	1	---
821	Fire or explosion of fusees or torpedoes	2	2	---	2	---	---	---	---
822	Other fire or explosion	16	2	14	16	---	---	---	---
823	Burned or irritated by hot, corrosive, or toxic substances	111	4	107	111	---	---	---	---
824	Stumbling, slipping, falling, caught, not elsewhere classified	1,088	23	1,035	1,058	26	---	4	---
825	Other acc/inc while servicing or maintaining eqp-eqp std	949	16	923	939	5	---	5	---
	SUBTOTAL.....	6,606	101	6,443	6,544	34	---	28	---
	MAINTENANCE OF WAY AND STRUCTURES								
852	Crossing over, under, or between locos or cars-eqp std	14	2	11	13	1	---	---	---
853	Striking or being struck by eqp, structures, or material-eqp std	503	3	492	495	7	---	1	---
854	Use of hand tools	1,072	4	1,066	1,070	---	---	2	---
855	Use of portable power tools	353	1	350	351	---	---	2	---
856	Use of welding equipment	97	---	96	96	---	---	1	---
857	Use of oxygen-acytelene, natural gas cutting equipment	45	---	45	45	---	---	---	---
858	Use of grinding equipment	72	---	71	71	---	---	1	---
859	Use of scaffolds, ladders, etc.	61	---	60	60	1	---	---	---
860	Use of cranes, hoists, derricks, piledrivers, etc.	164	1	163	164	---	---	---	---
861	Use of lift trucks and other portable material handling eqp	74	---	74	74	---	---	---	---
862	Use of shop machinery not elsewhere classified	54	---	54	54	---	---	---	---
863	Loading and unloading materials	830	2	826	828	1	---	1	---
864	Handling material by hand	1,087	1	1,079	1,080	---	---	7	---
866	Inhalation of or contact with fumes or gases	27	1	24	25	2	---	---	---
867	Foreign object in eye, using eye protection	205	---	201	201	1	---	3	---
868	Foreign object in eye, not using eye protection	209	1	205	206	2	---	1	---
869	Struck by flying of falling object	496	2	490	492	---	---	4	---
870	Electrical flash, shock, or burn	30	---	30	30	---	---	---	---
871	Fire or explosion of fusees or torpedoes	2	---	1	1	1	---	---	---
872	Other fire or explosion	24	---	23	23	1	---	---	---
873	Burned or irritated by hot, corrosive or toxic substances	74	---	71	71	2	---	1	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	1,229	10	1,172	1,182	39	---	8	---
875	Use of maintenance of way equipment not elsewhere classified	222	---	221	221	1	---	---	---
876	Inserting or removing ties, switch timbers and tie plates by use of hand tools	578	---	576	576	---	---	2	---

TABLE 70. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	MAINTENANCE OF WAY AND STRUCTURES								
877	Insert/remove ties, switch timbers and tie plates using portable power tools	90	—	90	90	—	—	—	—
878	Loading/unloading ties, switch timbers, tie plates and fastenings	399	—	397	397	—	—	2	—
879	Handling rail by use of power tools	93	—	92	92	1	—	—	—
880	Handling rail by use of hand tools	348	4	343	347	1	—	—	—
890	Handling/inserting/removing rail anchors (includes being struck by anchors)	233	2	230	232	1	—	—	—
891	Handling/inserting/removing track spikes (includes being struck by flying spike)	835	2	830	832	1	—	2	—
892	Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	213	1	211	212	—	—	1	—
893	Servicing or repairing MOW equipment at work site	253	—	251	251	—	—	2	—
899	Other accs/incs while maintaining way and structures - eqp standing	557	3	539	542	9	1	5	—
	SUBTOTAL.....	10,543	40	10,384	10,424	72	1	46	—
	FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901	Handling freight, baggage, express or mail	109	14	93	107	—	1	1	—
902	Struck or caught by shifted lading	3	1	2	3	—	—	—	—
903	Tripping over, or struck by falling baggage in passenger car-eqp std	2	—	2	2	—	—	—	—
904	Other accident/incident involving freight, baggage, express, or mail	17	3	13	16	—	1	—	—
	SUBTOTAL.....	131	18	110	128	—	2	1	—
	WINDOWS, DOORS, ETC., ON ON-TRACK EQUIPMENT								
907	Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	46	7	38	45	—	1	—	—
908	Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	28	5	19	24	—	1	3	—
909	Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	48	9	39	48	—	—	—	—
910	Closing or opening plug type car doors, defective equipment-eqp std	8	3	5	8	—	—	—	—
911	Closing or opening plug type car doors, no defects-equipment std	42	7	34	41	—	—	1	—
912	Closing or opening coach trap doors-equipment standing	52	33	8	41	—	11	—	—
913	Interior doors-equipment standing	50	23	21	44	1	4	1	—
914	Opening or closing locomotive doors-equipment standing	66	54	12	66	—	—	—	—
915	Opening or closing locomotive windows-equipment standing	5	4	1	5	—	—	—	—
916	Opening or closing caboose doors-equipment standing	6	3	3	6	—	—	—	—
917	Opening or closing caboose windows-equipment standing	2	2	—	2	—	—	—	—
918	Opening and closing other windows	12	7	5	12	—	—	—	—
919	Other accidents/incidents involving windows or doors	143	37	99	136	2	1	3	1
	SUBTOTAL.....	508	194	284	478	3	18	8	1

TABLE 70. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	PASSENGER CAR DOORS								
920	Caught by side doors while entering coach-equipment standing	15	5	3	8	—	6	1	—
921	Caught by side doors while exiting coach-equipment standing	14	2	1	3	—	10	1	—
924	Struck by side doors while entering coach-equipment standing	9	2	—	2	—	7	—	—
925	Struck by side doors while exiting coach-equipment standing	12	4	1	5	—	7	—	—
926	Striking side door while entering coach-equipment standing	1	—	1	1	—	—	—	—
927	Striking side door while exiting coach-equipment standing	4	—	2	2	—	2	—	—
	SUBTOTAL.....	55	13	8	21	—	32	2	—
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930	Stumbling/slipping, etc. on snow or ice	442	177	191	368	54	11	9	—
931	Stumbling/slipping, etc. on foreign material or irregular surface	812	476	258	734	48	14	13	3
932	Stumbling/slipping, etc. on parts of track in place	170	87	63	150	4	3	9	4
933	Stumbling/slipping, etc. on stairways, ramps or platforms	605	73	221	294	47	109	151	4
934	Slip/fall, etc. between loco/car and other cars and struct-eqp std	59	18	17	35	1	17	3	3
935	From bridges or trestles	38	7	28	35	—	—	—	3
936	From structures other than bridges or trestles	23	3	17	20	—	—	2	1
937	Into depressions	115	59	48	107	4	2	2	—
938	While on locomotive or car-equipment standing	86	32	40	72	—	10	4	—
939	Other, stumbling, slipping, falling, caught, etc.	284	78	147	225	21	15	21	2
	SUBTOTAL.....	2,634	1,010	1,030	2,040	179	181	214	20
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940	Foreign object in eye	365	262	94	356	6	—	3	—
941	Struck by flying of falling object (except assaults)	132	41	69	110	3	5	13	1
942	Electrical flash, shock, or burn	16	3	8	11	—	—	1	4
943	Fire or explosion of fusees or torpedoes	9	8	1	9	—	—	—	—
944	Other fire or explosion	13	2	9	11	—	—	2	—
945	Burned by hot or corrosive substances	33	14	18	32	—	1	—	—
946	Inhalation of or contact with fumes or gases	32	20	10	30	—	—	2	—
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	8	1	2	3	—	—	1	4
949	Other acc/inc resulting from flying/falling objs, burns, etc.	37	13	16	29	1	4	3	—
	SUBTOTAL.....	645	364	227	591	10	10	25	9

TABLE 70. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainman	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	OPERATION OF ON-TRACK WORK EQUIPMENT								
954	Getting on/off on-track work equipment - equipment standing	74	1	65	66	1	5	2	---
959	Other A/I involving on-track work equipment - equipment standing	75	---	75	75	---	---	---	---
	SUBTOTAL.....	149	1	140	141	1	5	2	---
	ASSAULT								
96A	Shot while on standing on-track equipment	3	3	---	3	---	---	---	---
96B	Shooting incidents not involving persons on on-track equipment	1	---	1	1	---	---	---	---
96C	Struck by other propelled object while on locomotive - equip standing	10	7	2	9	---	1	---	---
96D	Struck by other propelled object while on car - equip standing	4	3	1	4	---	---	---	---
96F	Struck by other propelled object, not on on-track equipment	8	4	4	8	---	---	---	---
96G	All other unprovoked assaults	73	25	41	66	2	5	---	---
96K	Shooting incidents that did not involve persons on on-track equipment	3	---	3	3	---	---	---	---
96L	Other assaults connected with the protection of RR property - eqp standing	60	7	53	60	---	---	---	---
96M	All other assaults not involving moving on-track equipment	46	7	30	37	---	1	8	---
96N	Injuries sustained by ther perpetrator of an assault	10	---	5	5	1	---	---	4
	SUBTOTAL.....	218	56	140	196	3	7	8	4
	OTHER OCCURRENCES								
970	Performing rerailing or other clearing operations	78	5	70	75	---	---	3	---
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	696	97	528	625	43	---	19	9
979	Servicing and maintenance of highway vehicles	23	1	20	21	---	---	2	---
980	Horseplay	21	3	10	13	5	1	1	1
981	Animal bites, including snake bites	24	4	16	20	---	---	---	4
982	Insect bites	332	95	229	324	7	1	---	---
983	Incidents occurring in office setting involving clerical, staff, etc., personnel	439	14	413	427	10	---	1	1
984	Contact with poisonous plants	47	3	44	47	---	---	---	---
985	Stepping on nails or other sharp objects	77	34	38	72	4	---	1	---
987	Caboose fire, equipment standing	1	1	---	1	---	---	---	---
988	Other accidents/incidents while in caboose, equipment standing	27	23	3	26	1	---	---	---
989	Other accidents/incidents	678	203	336	539	37	17	60	5
	SUBTOTAL.....	2,443	483	1,727	2,210	107	19	87	20
	GRAND TOTAL.....	28,966	6,404	21,101	27,505	423	434	518	86

NOTE: Contractor employees are included with nontrespassers

TABLE 71. ILLNESSES IN NON-TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	OPERATING OR ON LOCOMOTIVES								
105	Checking, oiling, servicing locomotive, etc. - equipment standing	2	2	---	2	---	---	---	---
109	Inhalation of or contact with fumes or gases - equipment standing	15	11	4	15	---	---	---	---
112	Foreign object in eye - equipment standing	2	1	1	2	---	---	---	---
119	Other accidents/incidents while operating locomotives - eqp standing	2	2	---	2	---	---	---	---
	SUBTOTAL.....	21	16	5	21	---	---	---	---
	OPERATING RAIL MOTORCARS								
159	Other accidents/incidents while operating rail motorcars - eqp std	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	OPERATING SWITCHES OR DERAILS								
309	Other acc/inc while operating switches/derails - equipment standing	3	2	1	3	---	---	---	---
	SUBTOTAL.....	3	2	1	3	---	---	---	---
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
504	Stepping or tripping on foreign material or irreg surface - eqp std	1	---	1	1	---	---	---	---
511	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	1	1	---	1	---	---	---	---
519	Other acc/inc while getting on or off cars or locos - equipment std	1	1	---	1	---	---	---	---
	SUBTOTAL.....	3	2	1	3	---	---	---	---
	SERVICING OR MAINTENANCE OF EQUIPMENT								
805	Use of portable power tools	1	---	1	1	---	---	---	---
806	Use of welding equipment	6	---	6	6	---	---	---	---
807	Use of oxygen-acytelene, natural gas cuting equipment	1	---	1	1	---	---	---	---
814	Handling material by hand	5	---	5	5	---	---	---	---
816	Inhalation of or contact with fumes or gases	29	3	26	29	---	---	---	---
817	Foreign object in eye, using eye protection	1	---	1	1	---	---	---	---
820	Electrical flash, shock, or burn	3	---	3	3	---	---	---	---
821	Fire or explosion of fusees or torpedoes	1	---	1	1	---	---	---	---
823	Burned or irritated by hot, corrosive, or toxic substances	11	---	11	11	---	---	---	---
825	Other acc/inc while servicing or maintaining eqp-eqp std	25	---	25	25	---	---	---	---
	SUBTOTAL.....	83	3	80	83	---	---	---	---

TABLE 71. (CONTINUED)

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
	MAINTENANCE OF WAY AND STRUCTURES								
853	Striking or being struck by eqp, structures, or material-eqp std	1	---	1	1	---	---	---	---
854	Use of hand tools	10	---	10	10	---	---	---	---
855	Use of portable power tools	2	---	2	2	---	---	---	---
856	Use of welding equipment	6	---	6	6	---	---	---	---
860	Use of cranes, hoists, derricks, piledrivers, etc.	1	---	---	---	---	---	1	---
862	Use of shop machinery not elsewhere classified	1	---	1	1	---	---	---	---
863	Loading and unloading materials	4	---	4	4	---	---	---	---
864	Handling material by hand	6	---	6	6	---	---	---	---
866	Inhalation of or contact with fumes or gases	17	---	17	17	---	---	---	---
868	Foreign object in eye, not using eye protection	1	---	1	1	---	---	---	---
870	Electrical flash, shock, or burn	3	---	3	3	---	---	---	---
872	Other fire or explosion	1	---	1	1	---	---	---	---
873	Burned or irritated by hot, corrosive or toxic substances	44	---	44	44	---	---	---	---
875	Use of maintenance of way equipment not elsewhere classified	3	---	3	3	---	---	---	---
876	Inserting or removing ties, switch timbers and tie plates by use of hand tools	5	---	5	5	---	---	---	---
877	Insert/remove ties, switch timbers and tie plates using portable power tools	2	---	2	2	---	---	---	---
880	Handling rail by use of hand tools	4	---	4	4	---	---	---	---
890	Handling/inserting/removing rail anchors (includes being struck by anchors)	5	1	4	5	---	---	---	---
891	Handling/inserting/removing track spikes (includes being struck by flying spike)	4	---	4	4	---	---	---	---
892	Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	1	---	1	1	---	---	---	---
893	Servicing or repairing MOW equipment at work site	2	---	2	2	---	---	---	---
899	Other accs/incs while maintaining way and structures - eqp standing	21	---	19	19	---	---	2	---
	SUBTOTAL.....	144	1	140	141	---	---	3	---
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930	Stumbling/slipping, etc. on snow or ice	1	---	1	1	---	---	---	---
931	Stumbling/slipping, etc. on foreign material or irregular surface	2	---	2	2	---	---	---	---
933	Stumbling/slipping, etc. on stairways, ramps or platforms	1	---	1	1	---	---	---	---
937	Into depressions	1	---	1	1	---	---	---	---
939	Other, stumbling, slipping, falling, caught, etc.	1	1	---	1	---	---	---	---
	SUBTOTAL.....	6	1	5	6	---	---	---	---

TABLE 71. (CONTINUED)

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940	Foreign object in eye	2	---	2	2	---	---	---	---
941	Struck by flying of falling object (except assaults)	1	---	1	1	---	---	---	---
942	Electrical flash, shock, or burn	2	---	2	2	---	---	---	---
944	Other fire or explosion	1	1	---	1	---	---	---	---
945	Burned by hot or corrosive substances	1	---	1	1	---	---	---	---
946	Inhalation of or contact with fumes or gases	49	34	15	49	---	---	---	---
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	4	---	4	4	---	---	---	---
949	Other acc/inc resulting from flying/falling objs, burns, etc.	2	2	---	2	---	---	---	---
	SUBTOTAL.....	62	37	25	62	---	---	---	---
	OPERATION OF ON-TRACK WORK EQUIPMENT								
959	Other A/I involving on-track work equipment - equipment standing	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	OTHER OCCURRENCES								
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	1	---	1	1	---	---	---	---
982	Insect bites	16	2	14	16	---	---	---	---
983	Incidents occurring in office setting involving clerical, staff, etc., personnel	6	---	6	6	---	---	---	---
984	Contact with poisonous plants	96	2	93	95	1	---	---	---
985	Stepping on nails or other sharp objects	1	---	1	1	---	---	---	---
988	Other accidents/incidents while in caboose, equipment standing	2	2	---	2	---	---	---	---
989	Other accidents/incidents	20	7	11	18	2	---	---	---
	SUBTOTAL.....	142	13	126	139	3	---	---	---
	GRAND TOTAL.....	466	77	383	460	3	---	3	---

NOTE: Contractor employees are included with nontrespassers

APPENDIX A
REPORTABILITY REQUIREMENTS AND DEFINITIONS

REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents in effect at the end of 1984 define a reportable accident/incident as an event arising from the operation of a railroad which, with minor exceptions, results in one or more of the following circumstances:

(a) Any impact between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian, or other highway user at a rail-highway crossing;

(b) Any collision, derailment, fire, explosion, act of God, or other event involving the operation of railroad on-track equipment, standing or moving, which results in more than $4,500 in damages to railroad on-track equipment, signals, track, track structures, and roadbed; and

(c) Any event arising from the operation of a railroad which results in:

(i) the death of one or more persons;
(ii) an injury to one or more persons; other than railroad employees, which requires medical treatment
(iii) an injury to one or more employees which requires medical treatment or results in: restriction of work or motion for one or more days, or one or more lost work days; transfer to another job; termination of employment; or loss of consciousness; or
(iv) any occupational illness of a railroad employee as diagnosed by a physician.

CLASSIFICATION OF ACCIDENTS/INCIDENTS

Train Accident. A collision, derailment, or other event involving the operation of railroad on-track equipment resulting in damages that exceed the reporting threshold.

Train Incident. Any event involving the movement of railroad on-track equipment that results in a death, a reportable injury, or a reportable illness, but in which railroad property damage does not exceed the reporting threshold.

Non-train Incident. An event arising from railroad operations but not from the movement of on-track equipment, which does not exceed the reporting threshold, and results in a death, a reportable injury, or a reportable occupational illness.

DEFINITIONS

Accident. See "train accident," above.

Car. A railway car designed to carry freight, railroad personnel, or passengers. This includes boxcars, covered hopper cars, flatcars, refrigerator cars, gondola cars, hopper cars, tank cars, cabooses, stock cars, ventilation cars, and special cars. It also includes on-track maintenance equipment.

Casualty. A fatality, a nonfatal injury, or an occupational illness resulting from railroad operations.

Class I railroad. A railroad with an annual gross operating revenue in excess of $50 million based on 1978 dollars.

Class II railroad. A railroad with an annual gross operating revenue of between $10 and $50 million based on 1978 dollars.

Class III Railroad. All switching and terminal companies, and all railroads with annual operating revenues of less than $10 million based on 1978 dollars.

Consist. On-track railroad equipment such as a train, locomotive, group of railcars, or a single railcar not coupled to another car or to a locomotive.

Contractor employee. A person employed by a contractor hired by a railroad to perform normal maintenance work to railroad rolling stock, track structure, bridges, buildings, etc.

Derailment. A derailment occurs when one or more than one unit of rolling stock equipment leaves the rails during train operations for a cause other than collision, explosion, or fire.

Employee. A person engaged in railroad operations who works for a railroad company in return for financial compensation.

Employee not on duty. A railroad employee who is on railroad property for a purpose connected with his or her employment or with other railroad permission, but who is not engaged in rail operations for financial or other compensation.

Fatality. The death of a person resulting from an injury incurred during railroad operations or resulting from an occupational illness, if death occurs within 365 days of initial diagnosis.

Hazardous materials. Any toxic substance, explosive, corrosive material, combustible material, poison, or radioactive material that poses a risk to the public's health, safety, or property when transported in commerce.

Human factor. Behavior affecting elements of railroad employee job performance.

Locomotive. A self-propelled unit of on-track equipment designed for moving other rail freight and passenger equipment on railroad tracks, including self-propelled units.

Locomotive-mile. The movement of a locomotive under its own power the distance of one mile.

Main track. Any track other than auxiliary track that extends through railroad yards or between stations and over which trains operate by time-table and/or train orders or the use of the track is governed by a signal system.

Man-hour. An industrial unit of production reflecting paid labor hours.

Nonfatal casualty. Injuries and occupational illnesses incurred during railroad operations and maintenance procedures.

Nontrespassers. A person who is lawfully on any part of railroad property which is used in railroad operations or a person who is adjacent to railroad premises when injured as the result of railroad operations.

Occupational illness. Any abnormal condition or disorder caused by environmental factors associated with a worker's employment, but not the result of an injury.

On-track equipment. Railroad rolling stock used to transport freight or passengers. Includes locomotives, railroad cars, maintenance equipment, and one or more locomotives coupled to one or more cars.

Operating practice. Railroad employment performance and adherence to the established operating rules of a railroad company.

Passenger. A person who is on, boarding, or alighting from a railroad car for the purpose of travel, without participating in its operation.

Public crossing. A location open to public travel where railroad tracks intersect a roadway that is under the jurisdiction and maintenance of a public authority.

Rail-highway crossing. A location where one or more railroad tracks intersect a public or private thoroughfare, a sidewalk, or a pathway.

Railroad. Any surface transportation system that carries passengers, goods, materials, or property over rails.

Reporting threshold. The level of railroad property damage, resulting from a train accident involving on-track equipment, over which a railroad company must report the accident to the Federal Railroad Administration. Reportable damages include the cost of labor and the cost of repairing (or replacing in kind) damaged on-track equipment, track, track structures, or roadbed.

Revenue ton-mile. Revenue freight traffic measured in ton-miles.

Tank car. A railroad car consisting of a large cylindrical container attached to the railcar truck and used to transport liquids in bulk.

Ton-mile. A unit of measure equal to the movement of one ton of railroad lading for a distance of one mile.

Train. Locomotive unit or units, with or without cars, involved in railroad operations.

Trainmen. Persons employed as engineers and motormen, firemen and helpers, conductors, brakemen, and flagmen engaged in passenger, freight, yard or work service, and train baggagemen. Prior to 1984 this category did not include hostlers. The Interstate Commerce Commission revised the occupational groupings in 1984 and now includes hostlers in the train and engine category.

Train-mile. A unit of comparative measure equal to the movement of one train for a distance of one mile.

Trespasser. Any person whose presence on railroad property, used in railroad operation, is prohibited or unlawful.

APPENDIX B
REPORTING FORMS

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 04-R4009

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH & YEAR	4. STATE ALPHABETIC CODE	5. COUNTY

NAME OF REPORTING OFFICER	OFFICIAL TITLE
ADDRESS	**TELEPHONE** *(Area Code) (Number)*

6.

I, _____, being first duly sworn, do say upon my oath that I
(Name of Affiant)
am _____, of the railroad aforesaid and as such officer of the said railroad it is my duty to have supervision
(Title of Office held by affiant)
over the record of reportable incidents arising from the operation of the said railroad, and that I have caused to be compiled from the said record and to be carefully examined the annexed report of such incidents occurring during the month named at the head of this sheet; and that the said report is true and complete to the best of my knowledge and belief.

Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19____.

(Use an im-
[L.S]
pression seal) _____ _____
(Notary Public) *(Signature of affiant)*

7. **MILES RUN DURING MONTH**

A. LOCOMOTIVE TRAIN MILES	B. MOTOR TRAIN MILES	C. YARD SWITCHING MILES	D. TOTAL

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED

TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57

SECTION A—RECAPITULATION OF ALL CASUALTIES *INCLUDING* HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES

TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj

CLASS OF PERSON FOR SECTIONS A AND B
1. Employees on duty
2. Employees not on duty
3. Passengers on trains
4. Other nontrespassers
5. Trespassers (all classes)
6. Contractor Employees
7. GRAND TOTAL

SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES

TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

LINE NO.	ACCIDENT/INCIDENT NUMBER	TYPE PERSON OR JOB CODE	DATE OF INJURY	DATE OF DEATH	STATE
1.					
2.					
3.					
4.					

FORM FRA F 6180-55 (8 76) REPLACES FORM FRA F 6180-55 (12-74) WHICH IS OBSOLETE.

This report is required by law (45 USC 40). Failure to report can result in the imposition of civil penalties.

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAILROAD INJURY AND ILLNESS SUMMARY
(CONTINUATION SHEET)

FORM APPROVED
OMB NO. 04R4035

SHEET ____ OF ____

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH

9.

CASUALTIES *(Cont.)*

a. ACCIDENT/ INCIDENT NUMBER	b. TYPE PERSON OR JOB CODE	c. INJURY OR ILLNESS CODE	d. OCCURRENCE CODE	e. AGE	f. NUMBER OF DAYS AWAY FROM WORK	g. NUMBER OF DAYS OF RESTRICTED ACTIVITY	h. CASES WITHOUT LOST WORK DAYS	i. STATE ALPHABETIC CODE

FORM FRA F 6180-55a (12-74)

GPO 889-884

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

FORM APPROVED
OMB NO. 04R4008

1. NAME OF REPORTING RAILROAD — Amtrak [ ] Autotrain [ ] — 1a. Alphabetic Code — 1b. Railroad Accident/Incident No.

2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT — 2a. Alphabetic Code — 2b. Railroad Accident/Incident No.

3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry) — 3a. Alphabetic Code — 3b. Railroad Accident/Incident No.

4. U.S. DOT AAR GRADE CROSSING IDENTIFICATION NUMBER — 5. DATE OF ACCIDENT/INCIDENT (month / day / year) — 6. TIME OF ACCIDENT/INCIDENT (am [ ] pm [ ])

7. TYPE OF ACCIDENT/INCIDENT (enter number in code box; single entry) — CODE [ ]

1. Derailment 2. Head on collision 3. Rear end collision 4. Side collision 5. Raking collision 6. Broken train collision 7. Rail Hwy crossing 8. RR grade crossing 9. Obstruction 10. Explosion Detonation 11. Fire or violent rupture 12. Other (specify)

HAZARDOUS MATERIALS (number of)

8. CARS CARRYING | 9. CARS DAMAGED OR DERAILED | 10. CARS WHICH RELEASED HAZ. MAT. | 11. PEOPLE EVACUATED (est.)

LOCATION

12. DIVISION | 13. NEAREST STATION | 14. MILEPOST (to nearest tenth) | 15. STATE (two letter code) CODE [ ]

ENVIRONMENTAL CONDITIONS

16. TEMPERATURE (specify if minus) °F

17. VISIBILITY (single entry) CODE [ ]
1. Dawn 2. Day 3. Dusk 4. Dark

18. WEATHER (single entry) CODE [ ]
1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow

OPERATIONAL DATA

19. METHOD (place X in appropriate box(es))
1 [ ] Manual block 2 [ ] Interlocking 3 [ ] Cab signal 4 [ ] Automatic block 5 [ ] Traffic control 6 [ ] Auto. train stop 7 [ ] Yard rules 8 [ ] Time table 9 [ ] Radio 10 [ ] Auto. train control 11 [ ] Verbal permission 12 [ ] Train orders 13 [ ] Other (specify)

20. SPEED (recorded speed if available) Est [ ] MPH Recorded [ ] — 21. TRAIN NUMBER — 22. TIME TABLE DIRECTION (1. North 2. South 3. East 4. West) CODE [ ]

EQUIPMENT

23. TRAILING TONS (gross tonnage excluding power units) — 24. TYPE OF EQUIPMENT CONSIST (single entry) CODE [ ]
1. Freight train 2. Passenger train 3. Mixed train 4. Work train 5. Single car 6. Cut of cars 7. Yard/switching 8. Light loco(s)

25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? CODE [ ]
1. Yes 2. No

26. TRACK NUMBER OR NAME — 27. FRA TRACK CLASSIFICATION — 28. ANNUAL TRACK DENSITY (gross tons in millions) — 29. TYPE OF TRACK CODE [ ]
1. Main 2. Yard 3. Siding 4. Industry

30. PRINCIPLE CAR UNIT	30a. Initial and Number	30b. Position in Train	30c. Loaded (1/E) or no.
(1) First Involved (derailed, struck, striking, etc.)			
(2) Causing (mechanical failures)			

31. LOCOMOTIVE UNITS (no. of)	a. Head End	Mid Train b. Manual	Mid Train c. Remote	Rear End d. Manual	Rear End e. Remote	32. CARS (no. of)	Loaded a. Freight	Loaded b. Pass	Empty c. Freight	Empty d. Pass	e. Caboose
(1) Total in Train						(1) Total in Equipment Consist					
(2) Total Derailed						(2) Total Derailed					

PROPERTY DAMAGE (estimated cost, including labor, to repair or replace)

33. EQUIPMENT DAMAGE (to be reported for this equipment consist only) $ [ ]

34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE (to be reported by railroad in item 3 only) $ [ ]

ACCIDENT/INCIDENT CAUSE CODE

35. PRIMARY CAUSE CODE [ ] — 36. CONTRIBUTING CAUSE CODE [ ] — 37. If no code available, explain cause.

CASUALTIES

38. NUMBER OF PERSONS INJURED — 39. ESTIMATED TOTAL DAYS DISABILITY — 40. NUMBER OF FATALITIES

CREW (no. of)

41. ENGINEERS | 42. FIREMEN | 43. CONDUCTORS | 44. BRAKEMEN

HOURS ON DUTY

45. ENGINEER Hrs: Mins: — 46. CONDUCTOR Hrs: Mins:

47. TYPED NAME AND TITLE — 48. SIGNATURE — 49. DATE

50. NARRATIVE DESCRIPTION – Describe the cause, nature and circumstances of accident/incident

FORM FRA F 6180-54 (12 74) REPLACES FORM FRA F 6180 15 (11 72) WHICH IS OBSOLETE

GPO 000-000

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

FORM APPROVED
OMB NO. 04R4033

1. NAME OF REPORTING RAILROAD — Amtrak ☐ Autotrain ☐ | 1a. Alphabetic Code | 1b. Railroad Accident/Incident No.

2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT | 2a. Alphabetic Code | 2b. Railroad Accident/Incident No.

3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE (single entry) | 3a. Alphabetic Code | 3b. Railroad Accident/Incident No.

4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER | 5. DATE OF ACCIDENT/INCIDENT month / day / year | 6. TIME OF ACCIDENT/INCIDENT am ☐ pm ☐

LOCATION

7. NEAREST RAILROAD STATION | 8. COUNTY | 9. STATE (two letter code) CODE

10. CITY (if in a city) | 11. HIGHWAY NAME OR NUMBER (if private crossing, so state)

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED

12. TYPE — 1 Auto, 2 Truck, 3 Truck-Trailer, 4 Bus, 5 School Bus, 6 Motorcycle, 7 Pedestrian, 8 Other (specify) — CODE

13. SPEED (estimated mph at impact)

14. DIRECTION (geographical) — 1 North, 2 South, 3 East, 4 West — CODE

15. POSITION — 1 Stalled on crossing, 2 Stopped on crossing, 3 Moving over crossing — CODE

16. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway user 2. Rail equipment 3. Both 4. Neither — CODE

RAILROAD EQUIPMENT INVOLVED

18. EQUIPMENT — 1 Train (units pulling), 2 Train (units pushing), 3 Train (standing), 4 Car(s) (moving), 5 Car(s) (standing), 6 Light loco(s) (moving), 7 Light loco(s) (standing), 8 Other (specify) — CODE

17. POSITION OF CAR/UNIT IN TRAIN — CODE

18. CIRCUMSTANCE — 1. Train struck highway user, 2. Train struck by highway user — CODE

ENVIRONMENT

20. TEMPERATURE (specify: °F or °C) °F

21. VISIBILITY (single entry) — 1 Dawn, 2 Day, 3 Dusk, 4 Dark — CODE

22. WEATHER (single entry) — 1 Clear, 2 Cloudy, 3 Rain, 4 Fog, 5 Sleet, 6 Snow — CODE

TRAIN AND TRACK

23. TYPE OF TRAIN — 1 Freight, 2 Passenger, 3 Mixed, 4 Work, 5 Yard/Switching, 6 Light Locomotive(s) — CODE

24. TRACK TYPE USED BY TRAIN INVOLVED — 1 Main, 2 Yard, 3 Siding, 4 Industry — CODE

25. TRACK NUMBER OR NAME

26. FRA TRACK CLASSIFICATION

27. NUMBER OF LOCOMOTIVE UNITS

28. NUMBER OF CARS

29. TRAIN SPEED (recorded speed, if available) MPH — Est ☐ Recorded ☐

30. TIME TABLE DIRECTION — 1 North, 2 South, 3 East, 4 West — CODE

CROSSING WARNING

31. TYPE (place X in appropriate box(es)) — 1 Gates, 2 Cantilever FLS, 3 Standard FLS, 4 Wig Wags, 5 Hwy Traffic Signals, 6 Audible, 7 Crossbucks, 8 Stop Signs, 9 Watchman, 10 Flagged by crew, 11 Other (specify), 12 None

32. SIGNALED CROSSING WARNING — Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No — CODE

33. LOCATION OF WARNING — 1 Both sides, 2 Side of vehicle approach, 3 Opposite side of vehicle approach — CODE

34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS — 1. Yes 2. No 3. Unknown — CODE

35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS — 1. Yes 2. No 3. Unknown — CODE

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE — 1. Yes 2. No 3. Unknown — CODE

37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN — 1. Yes 2. No 3. Unknown — CODE

38. MOTORIST — 1 Drove around or thru the gate, 2 Stopped and then proceeded, 3 Did not stop, 4 Other (specify), 5 Unknown — CODE

39. VIEW OF TRACK OBSCURED BY (primary obstruction) — 1 Permanent structure, 2 Standing railroad equipment, 3 Passing train, 4 Topography, 5 Vegetation, 6 Highway vehicles, 7 Other (specify), 8 Not obstructed — CODE

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE (est. dollar damage)

41. DRIVER WAS — 1 Killed, 2 Injured, 3 Uninjured — CODE

42. WAS DRIVER IN THE VEHICLE? 1. Yes 2. No — CODE

43. TOTAL NUMBER OF OCCUPANTS KILLED

44. TOTAL NUMBER OF OCCUPANTS INJURED

45. TOTAL NUMBER OF OCCUPANTS (include driver)

46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No — CODE

47. TYPED NAME AND TITLE

48. SIGNATURE

49. DATE

FORM FRA F 6180-57 (12-74) REPLACES FORM FRA F 6180-13 (10-67) WHICH IS OBSOLETE

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB APPROVAL NO.
04-R4037

ANNUAL SUMMARY REPORT
of
RAILROAD INJURY AND ILLNESS

(Covering Calendar Year ____)

COMPLETE THIS REPORT WHETHER OR NOT THERE WERE ANY REPORTABLE OCCUPATIONAL INJURIES OR ILLNESSES. READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

I. ESTABLISHMENTS INCLUDED IN THIS REPORT
This report should include all establishments located in, or identified by, the reporting railroad. Enter the number of establishments (see definition in the FRA Guide).

_____

II. AVERAGE EMPLOYMENT IN REPORTING YEAR
Enter the average number of employees during calendar year. Count all classes of employees, including seasonal, temporary, part-time, etc. See instructions in the FRA Guide for examples of computing your average employment.

_____ (Round to the nearest whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR
Enter the total number of hours actually worked by all employees. DO NOT include any non-work time even though paid, such as vacations, sick leave, holidays, etc.

_____ (Round to the nearest whole number)

IV. REPORTABLE INJURIES AND ILLNESSES
Did you have any reportable injuries or illnesses during the reporting year? (Check one)

(1) ☐ No - complete Section VII,

(2) ☐ Yes - complete Sections V, VI and VII.

V. MONTHLY DATA OF REPORTABLE INJURIES AND ILLNESSES
Of the Total Reportable Occupational Injuries and Illnesses (Section VI, Line 10 column 1), how many occurred in the following months?

Calendar Year

Jan. _____	Apr. _____	July _____	Oct. _____
Feb. _____	May _____	Aug. _____	Nov. _____
Mar. _____	June _____	Sept. _____	Dec. _____

CORPORATE NAME AND MAILING ADDRESS OF REPORTING RAILROAD →

Name	Alphabetic Railroad Code (See FRA Guide, Appendix A)
STREET	
CITY / STATE / ZIP CODE	

FORM FRA F6180-49 (2-76)
PREVIOUS EDITIONS ARE OBSOLETE.

This report is required by regulation (49 CFR 225). Failure to report can result in the imposition of civil penalties.

B-7

VI. INJURY AND ILLNESS SUMMARY (Covering Calendar Year _____)

INSTRUCTIONS:

- This section may be completed by Copying data from the "Annual Summary" which you are required to complete and post in your establishment.
- Leave Section VI blank if there were no reportable injuries or illnesses during the reporting year.
- Line 9 – Add all Occupational Illnesses (Lines 2 through 8) and enter on this line for each column (1) through (8).
- Line 10 - Add Occupational Injuries (Line 1) and the sum of all Occupational Illnesses (Line 9) and enter on this line for each column (1) through (8).

LINE		INJURY AND ILLNESS CATEGORY	TOTAL CASES (1)	DEATHS (2)	LOST WORKDAY CASES ONLY: Total lost workday cases (includes restricted workday cases) (3)	LOST WORKDAY CASES ONLY: Cases involving days away from work (4)	LOST WORKDAY CASES ONLY: Days away from work (5)	LOST WORKDAY CASES ONLY: Days of restricted work activity (6)	NONFATAL CASES WITHOUT LOST WORKDAYS (7)	TERMINATIONS OR PERMANENT TRANSFERS (8)
1		**OCCUPATIONAL INJURIES**								
2	OCCUPATIONAL ILLNESSES	Occupational Skin Diseases or Disorders								
3		Dust Diseases of the Lungs								
4		Respiratory Conditions Due to Toxic Agents								
5		Poisoning (Systemic Effects of Toxic Materials)								
6		Disorders Due to Physical Agents								
7		Disorders Associated With Repeated Trauma								
8		All Other Occupational Illnesses								
9		**TOTAL OCCUPATIONAL ILLNESSES** (Add Lines 2 through 8)								
10		**TOTAL OCCUPATIONAL INJURIES AND ILLNESSES** (Add Lines 1 and 9)								

VII. COMMENTS: _____

_____

_____

_____

Report prepared by: _____ Area Code and Phone: _____

Title: _____ Date: _____

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

FORM APPROVED
OMB NO. 04R4034

ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE

1. REPORTING RAILROAD	ALPHABETIC CODE	2. REPORT YEAR

ANNUAL MANHOURS

A. STATE	B. CODE	C. M/HRS	A. STATE	B. CODE	C. M/HRS
(1) ALABAMA	AL		(26) MONTANA	MT	
(2) ALASKA	AK		(27) NEBRASKA	NE	
(3) ARIZONA	AZ		(28) NEVADA	NV	
(4) ARKANSAS	AR		(29) NEW HAMPSHIRE	NH	
(5) CALIFORNIA	CA		(30) NEW JERSEY	NJ	
(6) COLORADO	CO		(31) NEW MEXICO	NM	
(7) CONNECTICUT	CT		(32) NEW YORK	NY	
(8) DELAWARE	DE		(33) NORTH CAROLINA	NC	
(9) DISTRICT OF COLUMBIA	DC		(34) NORTH DAKOTA	ND	
(10) FLORIDA	FL		(35) OHIO	OH	
(11) GEORGIA	GA		(36) OKLAHOMA	OK	
(12) IDAHO	ID		(37) OREGON	OR	
(13) ILLINOIS	IL		(38) PENNSYLVANIA	PA	
(14) INDIANA	IN		(39) RHODE ISLAND	RI	
(15) IOWA	IA		(40) SOUTH CAROLINA	SC	
(16) KANSAS	KS		(41) SOUTH DAKOTA	SD	
(17) KENTUCKY	KY		(42) TENNESSEE	TN	
(18) LOUISIANA	LA		(43) TEXAS	TX	
(19) MAINE	ME		(44) UTAH	UT	
(20) MARYLAND	MD		(45) VERMONT	VT	
(21) MASSACHUSETTS	MA		(46) VIRGINIA	VA	
(22) MICHIGAN	MI		(47) WASHINGTON	WA	
(23) MINNESOTA	MN		(48) WEST VIRGINIA	WV	
(24) MISSISSIPPI	MS		(49) WISCONSIN	WI	
(25) MISSOURI	MO		(50) WYOMING	WY	

4. TYPED NAME AND TITLE	5. SIGNATURE	6. DATE

FORM FRA F 6180-56 (8-74) SUBMIT THIS FORM WITH THE FRA F 6180-55, DECEMBER REPORT.